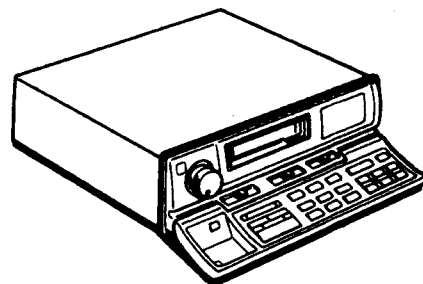


AIWA®**CT-Z8050**
CT-Z7050**SERVICE
MANUAL****STEREO CAR CASSETTE RECEIVER**

- BASIC TAPE MECHANISM : CDS - 50WP3 (Z8050)
CDS - 50WP4 (Z7050)

- TYPE. YZ

SPECIFICATIONS**<FM SECTION>**

Frequency Range: 87.5 MHz - 108.0 MHz
 Usable Sensitivity: 12.7 dBf
 50 dB Quieting Sensitivity: 17.2 dBf
 IF Rejection: 90 dB
 Frequency Response: 30 Hz - 15,000 Hz
 S/N Ratio: 72 dB
 Stereo Separation: 38 dB at 1 kHz
 Alternate Channel Selectivity: 85 dB
 Capture Ratio: 1.5 dB

<MW SECTION>

Frequency Range: 522 kHz - 1,620 kHz
 Usable Sensitivity: 25 μ V (28 dB)

<LW SECTION>

Frequency Range: 153 kHz - 281 kHz
 Usable sensitivity: 45 μ V (33 dB)

<TAPE SECTION>

Wow and Flutter: 0.1% (WRMS)
 Tape Speed: 4.8 cm/sec. (1-7/8 ips)
 S/N Ratio (METAL): Dolby off 54 dB

Dolby B on 64 dB
 Dolby C on 71 dB

Frequency Response: CT-Z8050:
 40 - 18,000 Hz
 (NORMAL)
 40 - 20,000 Hz
 (METAL)

CT-Z7050:
 40 - 16,000 Hz
 (NORMAL)
 40 - 18,000 Hz
 (METAL)

Stereo Separation: 40 dB
 FF/REW Time: 100 sec. (C-60)

<AUDIO SECTION>

Max. Power Output: CT-Z8050:
 25 W per channel
 CT-Z7050:
 20 W per channel
 Continuous Average Power Output:
 CT-Z8050:
 10 W per channel
 CT-Z7050:
 8 W per channel
 100 - 20,000 Hz at THD
 0.8%

<GENERAL>

Power Supply Voltage: 14.4 V (11 to 16 V
 allowable) DC, negative
 ground

Load Impedance: 4 Ω

Tone Control:
 Bass:
 ± 10 dB at 100 Hz
 Treble:
 ± 10 dB at 10 kHz

Pre-amp. Output
 Voltage: 1,000 mV (max.)
 Dimensions: 182 (W) $\times$ 53 (H) $\times$ 165
 (D) mm

CD Input voltage: 360 mV
 CD Input impedance: 10 k Ω

- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- "Dolby", the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

AIWA Co., Ltd.**Tokyo Japan**

Printed in Japan

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DISASSEMBLY INSTRUCTIONS

1. "Heat Sink ASSY" and "Sleeve, Din" Removal (See Figure-1)

- 1) Remove 4 screws and the "Screw, Transportation".
- 2) Remove the "Heat Sink ASSY" in the direction of arrow ① and then the "Sleeve, Din" in the direction of arrow ②. Be careful of the connector at this time.

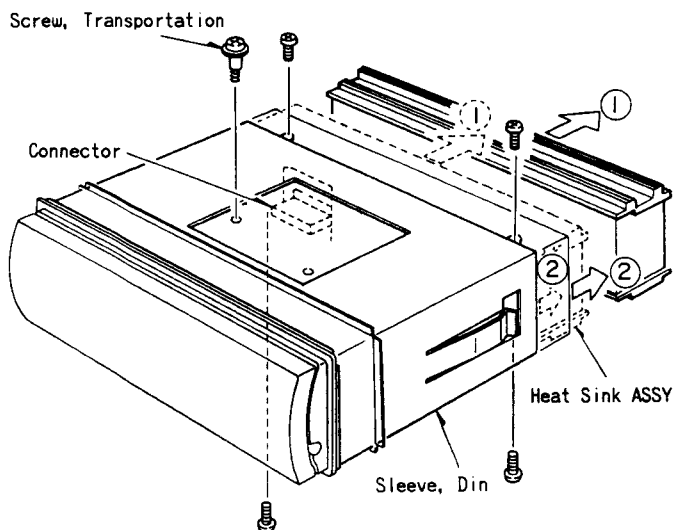


Fig-1

3. "Mechanism ASSY" Removal (See Figure-3)

- 1) Remove 2 screws (A) and the "Mecha C.B" in the direction of arrow. Be careful of the connector at this time.
- 2) Remove 4 screws (B) holding the "Mechanism ASSY".

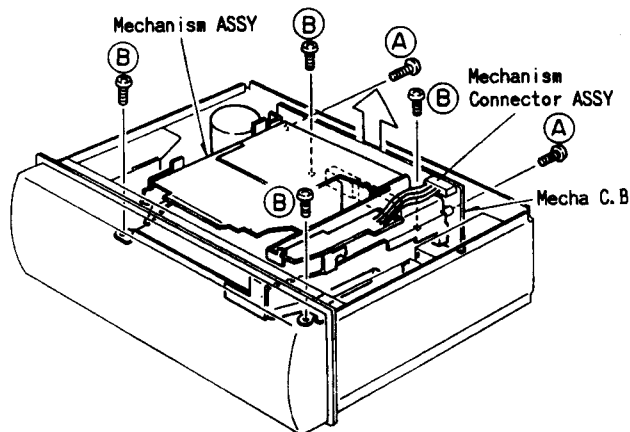


Fig-3

2. "Panel, Top" and "Panel, Bottom" Removal (See Figure-2)

- 1) Remove 4 screws and then remove the "Panel, Top" and "Panel, Bottom" in the direction of the arrow.

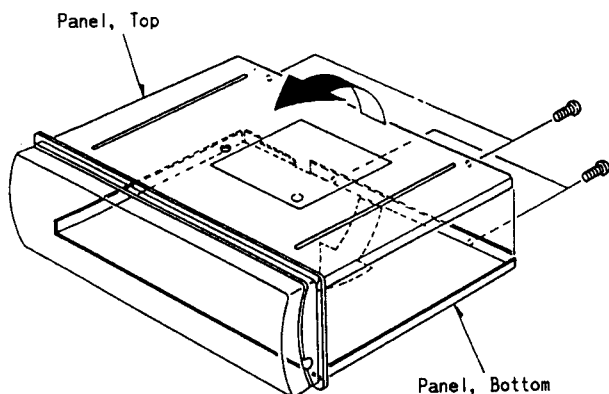


Fig-2

4. "Panel, Operation T" Removal (See Figure-4)

- 1) Remove 8 screws (A×2, B×2, C×1, D×1, E×2), and taking care of the hooks, remove "Panel, Operation T" in the direction of the arrow.

A	V+1.7-3.5(B)
B	V+1.4-3.5HL
C	V+1.7-5.5(B)
D	VT1.4-2.5
E	Q+1.7-2.8(B)

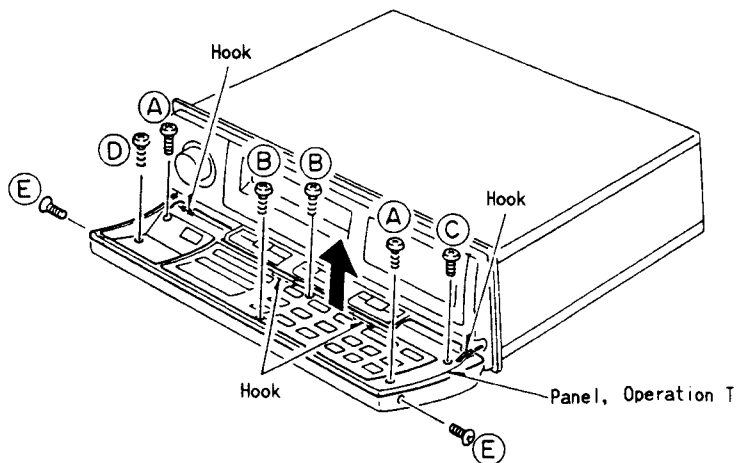
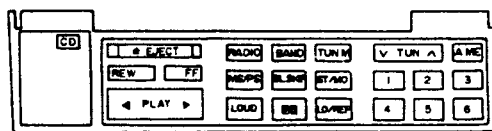


Fig-4

5. "Panel, Operation B" Removal (See Figure-5)

- 1) Remove the "Cushion Hinge ASSY".
- 2) Remove 2 screws and the "Click Plate L ASSY" and "Click Plate R ASSY", then remove "Panel, Operation B".

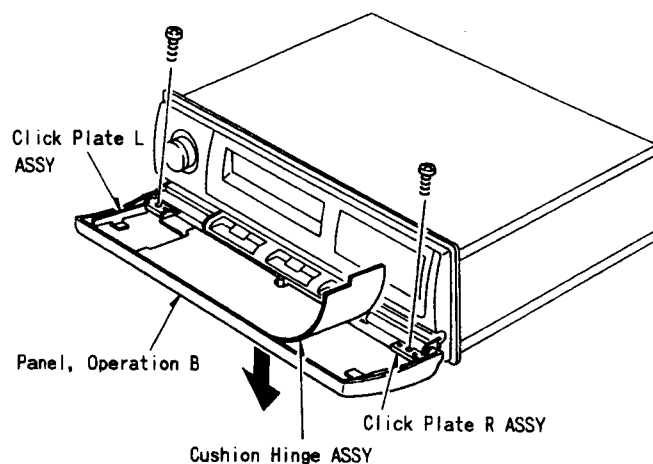


Fig-5

7. "Power C.B" Removal (See Figure-7)

- 1) Remove 4 screws (A) and the "Plate, Heat Sink".
- 2) Remove 3 screws (B) and slide the "Power C.B" to remove it in the direction of the arrow.

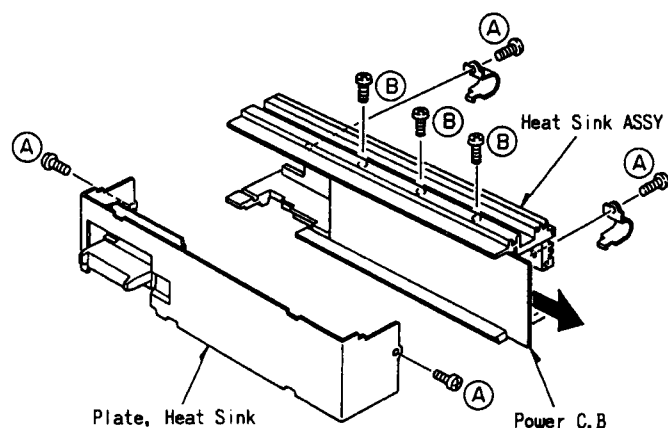


Fig-7

6. "Cabinet Front ASSY" and "Front C.B" Removal (See Figure-6)

- 1) Remove the "Panel, Operation T". (See Figure-4)
- 2) Remove the "Knob, Volume" and "Knob, Fader", and remove the "Knob, Balance".
- 3) Remove 2 screws (A), and while pushing the projections of the "Holder Click ASSY" and "Holder Click ASSY R" as shown in the figure, remove the holders in the directions of the arrows.
- 4) Remove 6 screws (B × 2, C × 2, D × 2), and while pushing 2 hooks, remove the "Cabinet Front ASSY".
- 5) Remove 2 screws (E) and the "Front C.B".

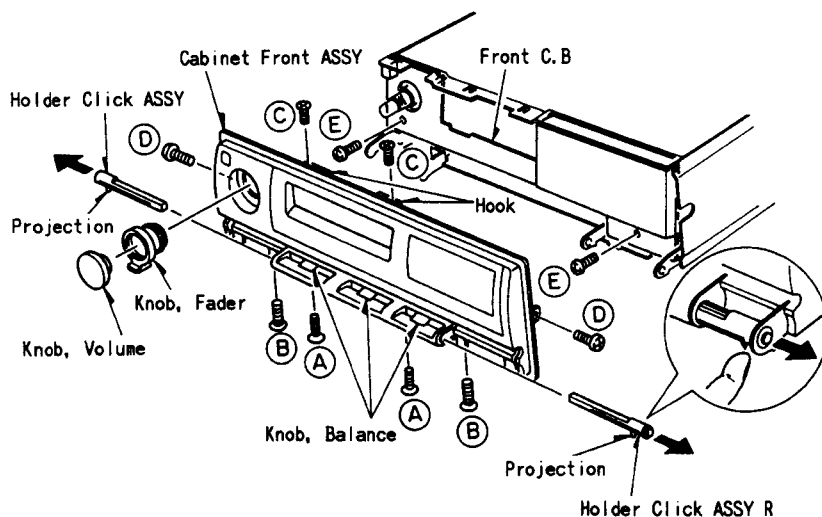


Fig-6

ELECTRICAL MAIN PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
=== IC ===			C111	*87-012-339-010	CAP,ELECT 0.47-50 BP
	87-001-756-010	IC,CXA1097Q	C112	*87-010-555-010	CAP,ELECT 100-10
	87-001-722-010	IC,HA13130(CT-Z8050)	C113	*87-010-494-010	CAP,ELECT 1-50
	87-001-761-080	IC,IR3T24N(CT-Z8050)	C114	*87-010-551-010	CAP,ELECT 33-10
	87-001-925-010	IC,LC7071NM	C115	*87-010-494-010	CAP,ELECT 1-50
	87-001-927-010	IC,LC7218M	C116	*87-010-491-010	CAP,ELECT 0.22-50
	87-001-750-010	IC,NJM2058M	C117	*87-010-497-010	CAP,ELECT 4.7-35
	87-027-842-010	IC,NJM2904M	C118	*87-010-555-010	CAP,ELECT 100-10
	87-001-607-010	IC,NJM4558M	C119	*87-010-552-010	CAP,ELECT 22-16
	87-001-536-010	IC,NJM78M05FA	C120	*87-018-205-010	CAP,CERA-SOL SS 0.025-25
	87-001-224-010	IC,NJU4066BM	C121	*87-010-184-010	CAP,CHIP S 3300P-50
	87-001-948-010	IC,PST572CMT	C122	*87-010-197-010	CAP,CHIP S 0.01-25
	87-001-975-010	IC,SAF7579T	C123	*87-010-197-010	CAP,CHIP S 0.01-25
	87-020-996-010	IC,STK3400A	C124	*87-010-182-010	CAP,CHIP S 2200P-50
	87-001-976-010	IC,TA7061BP	C125	*87-010-182-010	CAP,CHIP S 2200P-50
	87-027-885-010	IC,TA7341P	C126	*87-010-182-010	CAP,CHIP S 2200P-50
	87-001-116-010	IC,TA7705F	C127	*87-010-186-010	CAP,CHIP S 4700P-50
	87-001-378-010	IC,TA8210H(CT-Z7050)	C128	*87-010-196-010	CAP,CHIP S 0.1-25
	87-001-759-010	IC,UPD6120C-102(CT-Z8050)	C129	*87-010-499-010	CAP,ELECT 22-6.3
	87-001-924-010	IC,UPD6253	C130	*87-010-198-010	CAP,CHIP S 0.022-25
	87-001-928-010	IC,UPD7225GB-3B7	C131	*87-010-315-010	CAP,CHIP S 27P-50 CH
	87-001-930-010	IC,UPD75112GF-562	C132	*87-010-315-010	CAP,CHIP S 27P-50 CH
			C133	*87-012-141-010	CAP,CHIP S 0.22-16
			C134	*87-010-184-010	CAP,CHIP S 3300P-50
=== TRANSISTOR ===			C135	*87-012-155-010	CAP,CHIP S 180P-50 CH
	89-111-624-010	TRANSISTOR,2SA1162Y	C136	*87-010-184-010	CAP,CHIP S 3300P-50
	89-112-134-010	TRANSISTOR,2SA1213Y	C137	*87-012-155-010	CAP,CHIP S 180P-50 CH
	89-113-625-010	TRANSISTOR,2SA1362GR	C138	*87-010-154-010	CAP,CHIP S 10P-50 CH
	87-026-489-010	TRANSISTOR,2SB1205FA	C139	*87-010-197-010	CAP,CHIP S 0.01-25
	89-318-464-010	TRANSISTOR,2SC1846R	C140	*87-010-498-010	CAP,ELECT 10-16
	89-326-732-010	TRANSISTOR,2SC2673Q,R	C141	*87-010-184-010	CAP,CHIP S 3300P-50
	89-327-124-010	TRANSISTOR,2SC2712Y	C142	*87-012-158-010	CAP,CHIP S 390P-50 CH
	89-328-734-010	TRANSISTOR,2SC2873Y	C143	*87-010-184-010	CAP,CHIP S 3300P-50
	89-332-654-010	TRANSISTOR,2SC3265Y	C144	*87-010-196-010	CAP,CHIP S 0.1-25
	87-026-488-010	TRANSISTOR,2SD1805FA	C145	*87-012-153-010	CAP,CHIP S 120P-50 CH
	87-026-230-010	TRANSISTOR,DTA114YK	C146	*87-010-196-010	CAP,CHIP S 0.1-25
	87-026-228-010	TRANSISTOR,DTA124EK	C147	*87-010-196-010	CAP,CHIP S 0.1-25
	87-026-226-010	TRANSISTOR,DTA143EK	C148	*87-010-322-010	CAP,CHIP S 100P-50 CH
	87-026-487-010	TRANSISTOR,DTB123YK	C149	*87-010-313-010	CAP,CHIP S 18P-50 CH
	87-026-213-010	TRANSISTOR,DTC114YK	C150	*87-010-196-010	CAP,CHIP S 0.1-25
	87-026-236-010	TRANSISTOR,DTC124EK	C151	*87-010-185-010	CAP,CHIP S 3900P-50
	87-026-223-010	TRANSISTOR,DTC143TK	C152	*87-010-552-010	CAP,ELECT 22-16
	87-026-357-010	TRANSISTOR,DTC343TK	C153	*87-010-196-010	CAP,CHIP S 0.1-25
			C154	*87-010-499-010	CAP,ELECT 22-6.3
=== DIODE ===			C155	*87-010-194-010	CAP,CHIP S 0.047-25
	87-020-125-010	DIODE,CHIP 1SS181	C156	*87-010-194-010	CAP,CHIP S 0.047-25
	87-020-027-010	DIODE,CHIP 1SS184	C157	*87-010-552-010	CAP,ELECT 22-16
	87-020-339-010	DIODE,CHIP 1SS226	C158	*87-010-196-010	CAP,CHIP S 0.1-25
	87-001-764-010	DIODE,CHIP 1MN10	C160	*87-010-178-010	CAP,CHIP S 1000P-50
	87-027-365-010	DIODE,S5277B	C161	*87-010-101-010	CAP,ELECT 220-16
	87-020-590-010	DIODE,ZENER CHIP 02CZ10Y	C401	*87-010-497-010	CAP,ELECT 4.7-35
	87-020-586-010	DIODE,ZENER CHIP 02CZ6.8Y	C402	*87-010-497-010	CAP,ELECT 4.7-35
	87-020-589-010	DIODE,ZENER CHIP 02CZ9.1Y	C403	*87-010-494-010	CAP,ELECT 1-50
=== MAIN CIRCUIT BOARD SECTION ===			C404	*87-010-494-010	CAP,ELECT 1-50
C101	*87-010-196-010	CAP,CHIP S 0.1-25	C405	*87-010-761-010	CAP,CHIP 3000P
C103	*87-010-178-010	CAP,CHIP S 1000P-50	C406	*87-010-761-010	CAP,CHIP 3000P
C104	*87-010-196-010	CAP,CHIP S 0.1-25	C407	*87-010-175-010	CAP,CHIP S 560P-50 SL
C105	*87-012-142-010	CAP,CHIP S 0.33-16	C408	*87-010-175-010	CAP,CHIP S 560P-50 SL
C106	*87-010-196-010	CAP,CHIP S 0.1-25	C409	*87-010-186-010	CAP,CHIP S 4700P-50
C107	*87-012-142-010	CAP,CHIP S 0.33-16	C410	*87-010-186-010	CAP,CHIP S 4700P-50
C108	*87-010-178-010	CAP,CHIP S 1000P-50	C411	*87-010-101-010	CAP,ELECT 220-16
C109	*87-012-141-010	CAP,CHIP S 0.22-16	C412	*87-010-101-010	CAP,ELECT 220-16
C110	*87-010-499-010	CAP,ELECT 22-6.3	C413	*87-010-553-010	CAP,ELECT 47-16
			C414	*87-010-498-010	CAP,ELECT 10-16

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
C415	*87-010-497-010	CAP,ELECT 4.7-35	C754	*87-010-498-010	CAP,ELECT 10-16
C421	*87-010-493-010	CAP,ELECT 0.47-50	C756	*87-010-553-010	CAP,ELECT 47-16
C422	*87-010-493-010	CAP,ELECT 0.47-50	C760	*87-010-196-010	CAP,CHIP S 0.1-25
C423	*87-010-760-010	CAP,ELECT 0.15-50	C761	*87-010-318-010	CAP,CHIP S 47P-50 CH
C424	*87-010-760-010	CAP,ELECT 0.15-50	C762	*87-010-318-010	CAP,CHIP S 47P-50 CH
C425	*87-010-491-010	CAP,ELECT 0.22-50	C763	*87-010-318-010	CAP,CHIP S 47P-50 CH
C426	*87-010-491-010	CAP,ELECT 0.22-50	C764	*87-010-318-010	CAP,CHIP S 47P-50 CH
C427	*87-010-195-080	CAP,CHIP S 0.068-25	C765	*87-010-497-010	CAP,ELECT 4.7-35
C428	*87-010-195-080	CAP,CHIP S 0.068-25	C766	*87-010-497-010	CAP,ELECT 4.7-35
C429	*87-010-194-010	CAP,CHIP S 0.047-25	C767	*87-010-497-010	CAP,ELECT 4.7-35
C430	*87-010-194-010	CAP,CHIP S 0.047-25	C768	*87-010-497-010	CAP,ELECT 4.7-35
C431	*87-010-188-010	CAP,CHIP S 6800P-50	C769	*87-010-494-010	CAP,ELECT 1-50
C432	*87-010-188-010	CAP,CHIP S 6800P-50	C770	*87-010-494-010	CAP,ELECT 1-50
C433	*87-010-197-010	CAP,CHIP S 0.01-25	C771	*87-010-494-010	CAP,ELECT 1-50
C434	*87-010-197-010	CAP,CHIP S 0.01-25	C772	*87-010-494-010	CAP,ELECT 1-50
C435	*87-010-428-010	CAP,CHIP S 0.015-25	C781	*87-010-178-010	CAP,CHIP S 1000P-50
C436	*87-010-428-010	CAP,CHIP S 0.015-25	C782	*87-010-178-010	CAP,CHIP S 1000P-50
C501	*87-010-196-010	CAP,CHIP S 0.1-25	C783	*87-010-498-010	CAP,ELECT 10-16
C502	*87-012-141-010	CAP,CHIP S 0.22-16	C784	*87-010-553-010	CAP,ELECT 47-16
C503	*87-010-553-010	CAP,ELECT 47-16	C785	*87-010-498-010	CAP,ELECT 10-16
C504	*87-010-553-010	CAP,ELECT 47-16	C791	*87-010-498-010	CAP,ELECT 10-16
C505	*87-010-550-010	CAP,ELECT 100-6.3	C792	*87-010-498-010	CAP,ELECT 10-16
C506	*87-010-194-010	CAP,CHIP S 0.047-25	C793	*87-010-452-010	CAP,CHIP 1-16
C507	*87-010-174-010	CAP,CHIP S 470P-50 SL	C794	*87-010-452-010	CAP,CHIP 1-16
C511	*87-010-196-010	CAP,CHIP S 0.1-25	C795	*87-010-452-010	CAP,CHIP 1-16
C512	*87-010-552-010	CAP,ELECT 22-16	C796	*87-010-452-010	CAP,CHIP 1-16
C513	*87-010-196-010	CAP,CHIP S 0.1-25	C797	*87-010-196-010	CAP,CHIP S 0.1-25
C514	*87-010-494-010	CAP,ELECT 1-50	C798	*87-010-499-010	CAP,ELECT 22-6.3
C515	*87-010-870-010	CAP,0.1F 5.5V	C888	*87-010-196-010	CAP,CHIP S 0.1-25
C516	*87-010-196-010	CAP,CHIP S 0.1-25	C889	*87-010-196-010	CAP,CHIP S 0.1-25
C517	*87-010-174-010	CAP,CHIP S 470P-50 SL	CON801	*84-508-614-010	CONNECTOR 20P CC-P99
C518	*87-010-196-010	CAP,CHIP S 0.1-25	L101	*89-KT1-605-010	COIL,126ANS-7937Z
C519	*87-010-499-010	CAP,ELECT 22-6.3	L102	*89-KT1-605-010	COIL,126ANS-7937Z
C520	*87-010-196-010	CAP,CHIP S 0.1-25	L103	*89-KT1-605-010	COIL,126ANS-7937Z
C552	*87-010-198-010	CAP,CHIP S 0.022-25	L104	*89-KT1-605-010	COIL,126ANS-7937Z
C591	*87-010-552-010	CAP,ELECT 22-16	L401	*82-231-629-010	COIL,22MMH
C701	*87-010-497-010	CAP,ELECT 4.7-35	L402	*82-231-629-010	COIL,22MMH
C702	*87-010-497-010	CAP,ELECT 4.7-35	R133	*87-022-174-010	RES,CHIP 10-1/4W
C703	*87-010-497-010	CAP,ELECT 4.7-35	R134	*87-022-176-010	RES,CHIP 820-1/4W
C704	*87-010-497-010	CAP,ELECT 4.7-35	R501	*87-022-174-010	RES,CHIP 10-1/4W
C705	*87-010-197-010	CAP,CHIP S 0.01-25	R511	*87-022-180-010	RES,CHIP 470-1W
C711	*87-010-322-010	CAP,CHIP S 100P-50 CH	R781	*87-022-174-010	RES,CHIP 10-1/4W
C712	*87-010-322-010	CAP,CHIP S 100P-50 CH	R782	*87-022-173-010	RES,CHIP 5.6-1W
C713	*87-010-494-010	CAP,ELECT 1-50	SFR101	*87-021-746-010	SFR 100K
C714	*87-010-494-010	CAP,ELECT 1-50	SFR102	*87-021-745-010	SFR 47K
C717	*87-010-193-010	CAP,CHIP S 0.033-25	SFR103	*87-021-729-010	SFR 1K
C718	*87-010-193-010	CAP,CHIP S 0.033-25	TU101	*89-KT1-606-010	TUNER UNIT(FM,MW,LW)
C719	*87-010-184-010	CAP,CHIP S 3300P-50	VR701	84-508-620-010	VOLUME,SL 50KB(BASS)
C720	*87-010-184-010	CAP,CHIP S 3300P-50	VR702	84-508-620-010	VOLUME,SL 50KB(TREBLE)
C721	*87-010-193-010	CAP,CHIP S 0.033-25	VR703	84-508-620-010	VOLUME,SL 50KB(BALANCE)
C722	*87-010-193-010	CAP,CHIP S 0.033-25	X101	*84-508-617-010	X,TAL 7.2MHZ
C723	*87-010-182-010	CAP,CHIP S 2200P-50	X102	*89-KT1-608-010	X,TAL 4.332MHZ
C724	*87-010-182-010	CAP,CHIP S 2200P-50	X103	*87-030-167-010	CERAMIC RESONATOR CST4.0MHZ
C725	*87-010-494-010	CAP,ELECT 1-50	X104	*84-508-618-010	CERAMIC RESONATOR CSB456F15
C726	*87-010-494-010	CAP,ELECT 1-50	X501	*87-008-394-010	FILTER,CF CST4.19MG
C727	*87-010-490-010	CAP,ELECT 0.1-50	--- MECHA. CIRCUIT BOARD SECTION ---		
C728	*87-010-490-010	CAP,ELECT 0.1-50	C201	*87-012-155-010	CAP,CHIP S 180P-50 CH(CT-Z8050)
C729	*87-010-499-010	CAP,ELECT 22-6.3	C201	*87-012-156-010	CAP,CHIP S 220P-50 CH(CT-Z7050)
C730	*87-010-498-010	CAP,ELECT 10-16	C202	*87-012-155-010	CAP,CHIP S 180P-50 CH(CT-Z8050)
C731	*87-010-553-010	CAP,ELECT 47-16	C202	*87-012-156-010	CAP,CHIP S 220P-50 CH(CT-Z7050)
C741	*87-010-553-010	CAP,ELECT 47-16	C203	*87-012-155-010	CAP,CHIP S 180P-50 CH(CT-Z8050)
C751	*87-010-101-010	CAP,ELECT 220-16	C203	*87-012-156-010	CAP,CHIP S 220P-50 CH(CT-Z7050)
C752	*87-010-101-010	CAP,ELECT 220-16	C204	*87-012-155-010	CAP,CHIP S 180P-50 CH(CT-Z8050)
C753	*87-010-235-010	CAP,ELECT 470-16			

REF.NO.	PART NO.	DESCRIPTION
C204	*87-012-156-010	CAP,CHIP S 220P-50 CH(CT-Z7050)
C205	*87-010-197-010	CAP,CHIP S 0.01-25
C206	*87-010-197-010	CAP,CHIP S 0.01-25
C207	*87-010-553-010	CAP,ELECT 47-16
C208	*87-010-553-010	CAP,ELECT 47-16
C209	*87-010-553-010	CAP,ELECT 47-16
C210	*87-010-553-010	CAP,ELECT 47-16
C211	*87-010-497-010	CAP,ELECT 4.7-35
C212	*87-010-497-010	CAP,ELECT 4.7-35
C213	*87-010-494-010	CAP,ELECT 1-50
C221	*87-010-196-010	CAP,CHIP S 0.1-25
C222	*87-010-196-010	CAP,CHIP S 0.1-25
C223	*87-012-142-010	CAP,CHIP S 0.33-16
C224	*87-012-157-010	CAP,CHIP S 330P-50 CH
C225	*87-010-198-010	CAP,CHIP S 0.022-25
C226	*87-010-494-010	CAP,ELECT 1-50
C227	*87-010-552-010	CAP,ELECT 22-16
C228	*87-010-552-010	CAP,ELECT 22-16
C229	*87-010-553-010	CAP,ELECT 47-16
C230	*87-010-498-010	CAP,ELECT 10-16
C231	*87-010-197-010	CAP,CHIP S 0.01-25
C232	*87-010-553-010	CAP,ELECT 47-16
L201	*87-003-089-010	COIL,47UH
SFR201	*87-021-773-010	SFR 470
SFR202	*87-021-773-010	SFR 470

=== STOP SW CIRCUIT BOARD SECTION ===

D620	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D621	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D622	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D623	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D624	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D625	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D626	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D627	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D628	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D629	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D630	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D631	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D632	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D633	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D634	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D635	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D636	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D637	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
D638	87-001-762-010	LED,SLM-13DW(ILLUMINATION)
S600	87-030-152-010	TACT SW(CD)
S601	87-036-153-010	TACT SW(EJECT)
S602	87-036-153-010	TACT SW(REW)
S603	87-036-153-010	TACT SW(PLAY)
S604	87-036-153-010	TACT SW(EJECT)
S605	87-036-153-010	TACT SW(FFWD)
S606	87-036-153-010	TACT SW(PLAY)
S607	87-036-153-010	TACT SW(RADIO)
S608	87-036-153-010	TACT SW(MS/PS)
S609	87-036-153-010	TACT SW(LOUD)
S610	87-036-153-010	TACT SW(BAND)
S611	87-036-153-010	TACT SW(BS/MO)
S612	87-036-153-010	TACT SW(DOLBY)
S613	87-036-153-010	TACT SW(RDS)
S614	87-036-153-010	TACT SW(TP/TA)
S615	87-036-153-010	TACT SW(LOCAL/DX)
S616	87-036-153-010	TACT SW(TUN DOWN)

REF.NO.	PART NO.	DESCRIPTION
S617	87-036-153-010	TACT SW(1)
S618	87-036-153-010	TACT SW(4)
S619	87-036-153-010	TACT SW(TUN UP)
S620	87-036-153-010	TACT SW(2)
S621	87-036-153-010	TACT SW(5)
S622	87-036-153-010	TACT SW(AUTO MEMORY)
S623	87-036-153-010	TACT SW(3)
S624	87-036-153-010	TACT SW(6)

=== POWER CIRCUIT BOARD SECTION ===

C801	*87-010-497-010	(CT-Z8050) CAP,ELECT 4.7-35
C802	*87-010-497-010	CAP,ELECT 4.7-35
C803	*87-010-553-010	CAP,ELECT 47-16
C804	*87-010-553-010	CAP,ELECT 47-16
C805	*87-010-176-010	CAP,CHIP S 680P-50 SL
C806	*87-010-176-010	CAP,CHIP S 680P-50 SL
C811	*87-010-497-010	CAP,ELECT 4.7-35
C812	*87-010-497-070	CAP,ELECT 4.7-35
C813	*87-010-553-010	CAP,ELECT 47-16
C814	*87-010-553-010	CAP,ELECT 47-16
C815	*87-010-176-010	CAP,CHIP S 680P-50 SL
C816	*87-010-176-010	CAP,CHIP S 680P-50 SL
C821	*87-010-488-010	CAP,ELECT 2200-16
C822	*87-010-488-010	CAP,ELECT 2200-16
C823	*87-010-101-010	CAP,ELECT 220-16
C824	*87-010-101-010	CAP,ELECT 220-16

=== POWER CIRCUIT BOARD SECTION ===

C801	*87-010-499-070	(CT-Z7050) CAP,ELECT 22-6.3 GAS
C802	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C803	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C804	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C805	*87-010-174-080	CAP,CHIP S 470P-50 SL
C806	*87-010-174-010	CAP,CHIP S 470P-50 SL
C811	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C812	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C813	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C814	*87-010-499-070	CAP,ELECT 22-6.3 GAS
C815	*87-010-174-010	CAP,CHIP S 470P-50 SL
C816	*87-010-174-010	CAP,CHIP S 470P-50 SL
C821	*87-010-488-010	CAP,ELECT 2200-16
C822	*87-010-488-010	CAP,ELECT 2200-16
C823	*87-010-555-070	CAP,ELECT 100-10 GAS
C824	*87-010-555-070	CAP,ELECT 100-10 GAS

=== VOL. CIRCUIT BOARD SECTION ===

C732	*87-010-553-010	(CT-Z8050) CAP,ELECT 47-16
R799	*87-022-181-010	RES,CHIP 180-1W
VR704-1	84-508-619-010	VOLUME,MOTOR 4GANG(VOLUME)
VR704-2	+++	VOLUME,MOTOR 4GANG(VOLUME)
VR704-3	+++	VOLUME,MOTOR 4GANG(FADER)
VR704-4	+++	VOLUME,MOTOR 4GANG(FADER)

=== VOL. CIRCUIT BOARD SECTION ===

VR704-1	84-509-605-010	(CT-Z7050) VOLUME,4GANG(VOLUME)
VR704-2	+++	VOLUME,4GANG(VOLUME)
VR704-3	+++	VOLUME,4GANG(FADER)
VR704-4	+++	VOLUME,4GANG(FADER)

=== FRONT CIRCUIT BOARD SECTION ===

REF.NO.	PART NO.	DESCRIPTION
=== MECHANISM CIRCUIT BOARD SECTION ===		
	*S1-025-071-800	MECHANISM CIRCUIT BOARD ASSY
SW202	S1-002-570-400	SLIDE SW(F/R)
SW203	S1-005-074-900	LEAF SW(TAPE IN)
SW204	S1-005-075-000	LEAF SW(TAPE IN)
=== SENSOR CIRCUIT BOARD SECTION ===		
	*S1-005-061-500	PHOTO SENSOR ASSY(W/PCB)
=== FLEXIBLE CIRCUIT BOARD SECTION ===		
PCB-1	*84-508-610-010	FLEXIBLE CIRCUIT BOARD
=== REMOTE CONTROL CIRCUIT BOARD SECTION ===		
		(CT-Z8050)
C651	*84-439-620-010	CAP,ELECT 470-4
C652	*87-018-123-010	CAP,CERA-SOL SS 220P-50
C653	*87-018-123-010	CAP,CERA-SOL SS 220P-50
D651	87-001-782-010	LED,GL537 INFRARED(REMOTE)
D652	87-001-782-010	LED,GL537 INFRARED(REMOTE)
X651	*87-008-246-010	X,TAL CSB455EB
=== MISCELLANEOUS ===		
	*84-508-631-010	CODE,RCA
	*84-508-632-010	CODE,SP FL
	*84-508-633-010	CODE,SP FR
	*84-508-634-010	CODE,SP RL
	*84-508-635-010	CODE,SP RR
	*84-508-636-010	CODE,GND
	*84-508-637-010	CODE,BATT
M201	S3-005-062-700	MOTOR
PH201	84-508-640-010	PH HEAD(CT-Z8050)
PH201	S3-025-071-700	PH HEAD(CT-Z7050)
PIN801	*84-508-613-010	CONNECTOR 20P CC-P99
SOL201	*S1-005-062-500	SOLENOID ASSY(FF)
SOL202	+++	SOLENOID ASSY(REW)
SW201	+++	SOLENOID ASSY,LEAF SW(PLAY)
SOL203	*S1-025-072-100	SOLENOID(DIR)

チップ抵抗部品コードの成り立ち

Chip resistor part coding

8 8 - □ □ □ - □ □ □

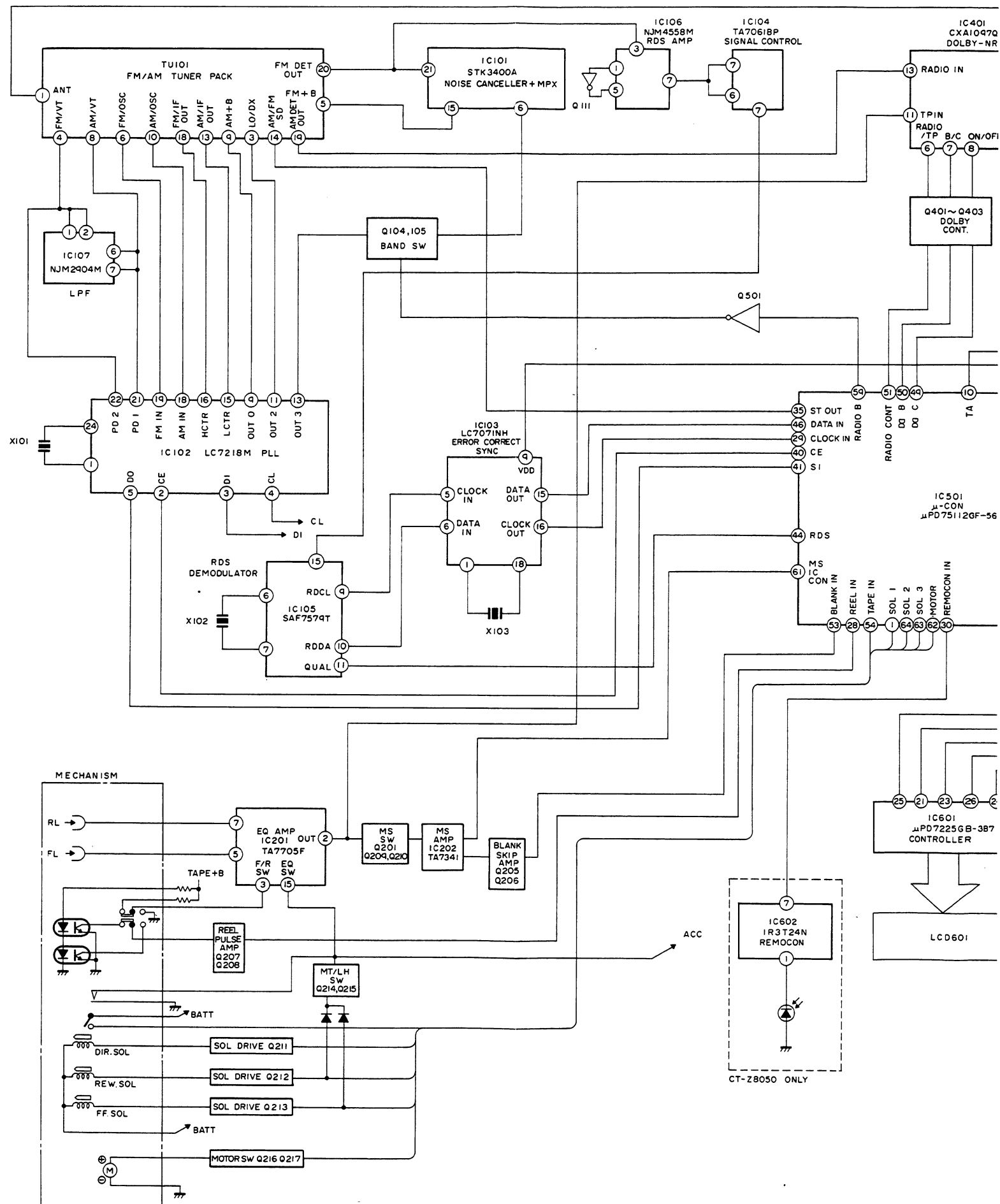
A

抵抗コード
Resistor code

桁表示
Figure

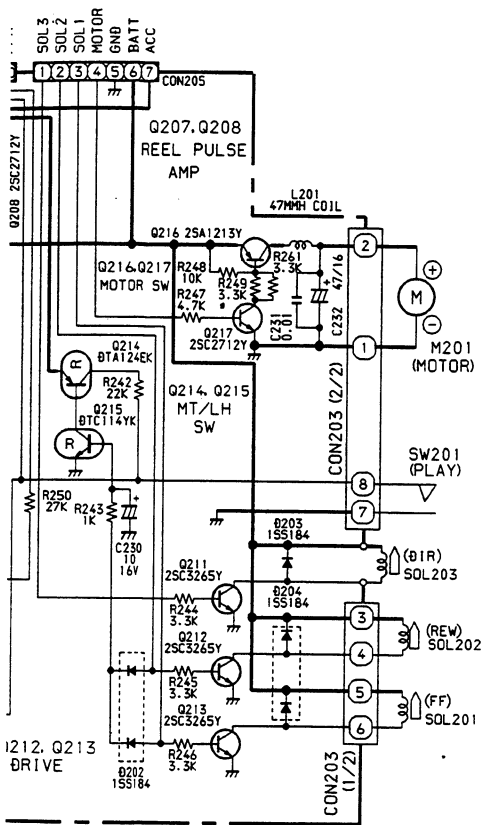
抵抗値
Value of resistor

チップ抵抗 Chip resistor				Dimensions / 寸法 (mm)				Resistor Code : A
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Form / 外形	L	W	t	抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.5 ~0.7	128

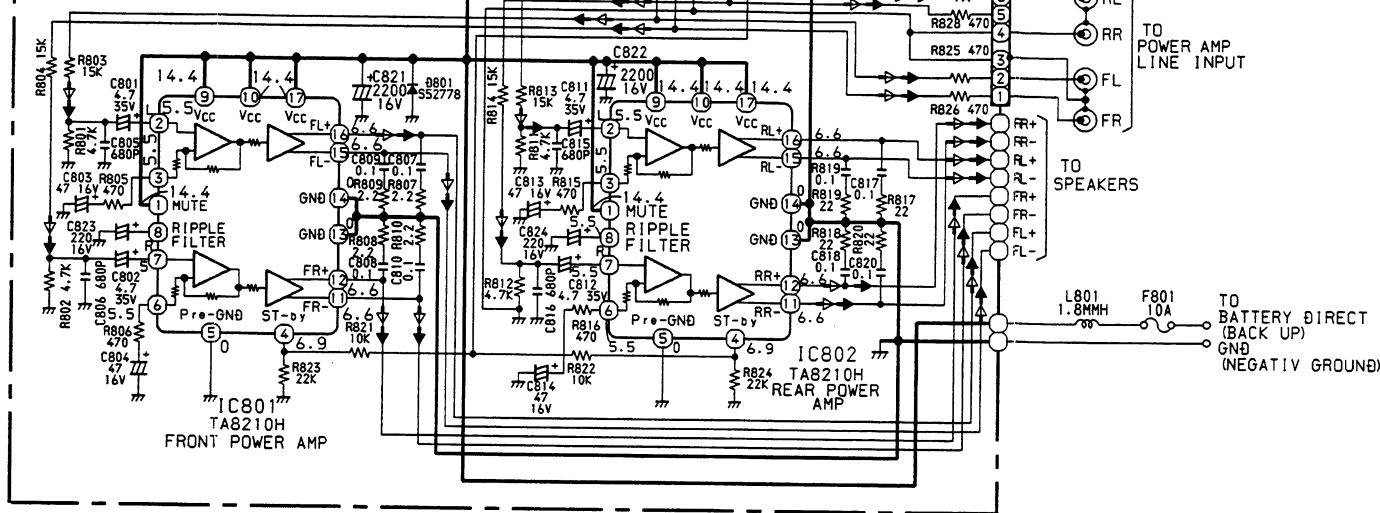


9

A MAIN C.B PIN205



D POWER C.B (CT-Z7050)

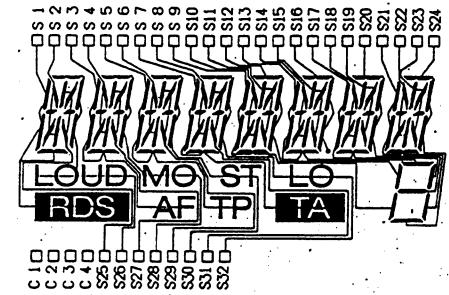


CONNECTION OF LC601

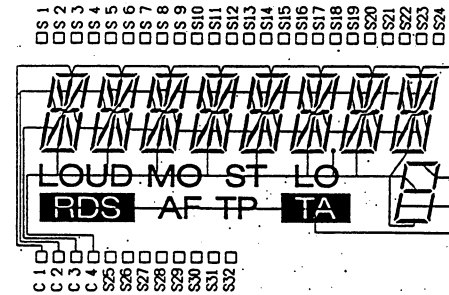
LC601 PIN NO.	IC601 PIN NO.	SEGMENT/COMMON
1	35	S1
2	37	S2
3	39	S3
4	41	S4
5	44	S5
6	46	S6
7	48	S7
8	51	S8
9	53	S9
10	55	S10
11	52	S11
12	54	S12
13	2	S13
14	4	S14
15	1	S15
16	3	S16
17	6	S17
18	8	S18
19	5	S19
20	7	S20
21	10	S21
22	12	S22
23	9	S23
24	11	S24
25	30	COM 1
26	31	COM 2
27	32	COM 3
28	33	COM 4
29	34	S25
30	36	S26
31	38	S27
32	40	S28
33	43	S29
34	45	S30
35	47	S31
36	50	S32

LCD601

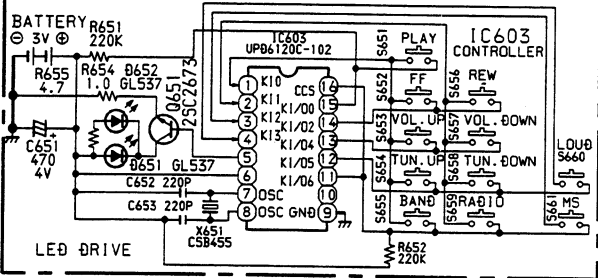
COMMON



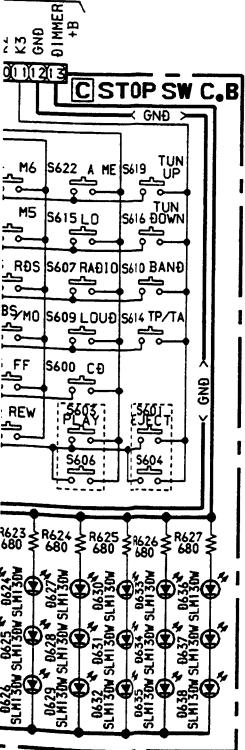
SEGMENT



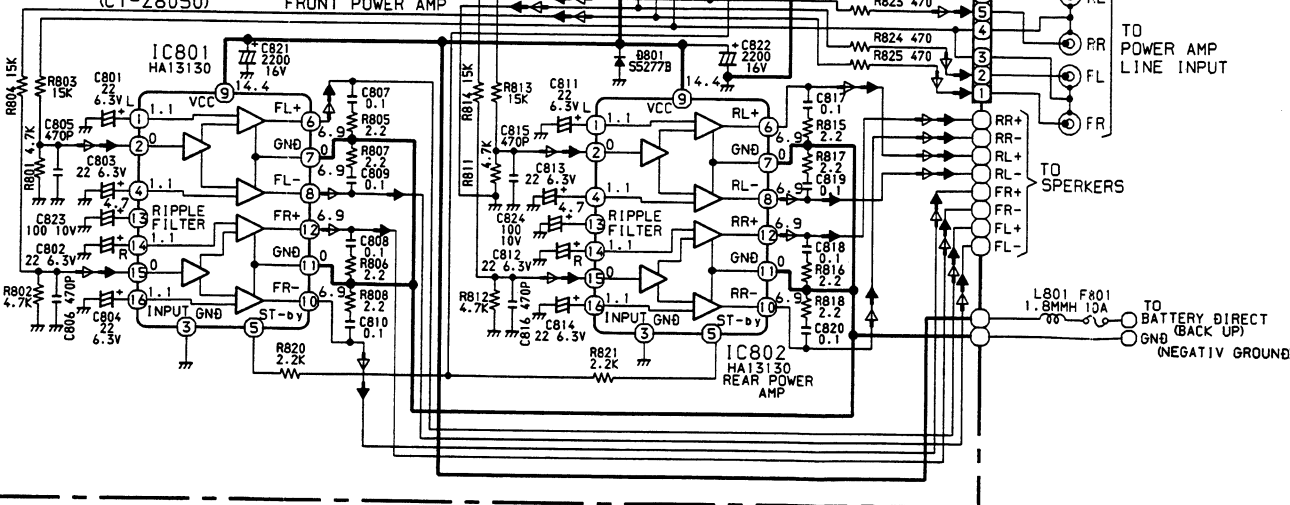
J REMOTE CONTROL C.B (CT-Z8050 ONLY)



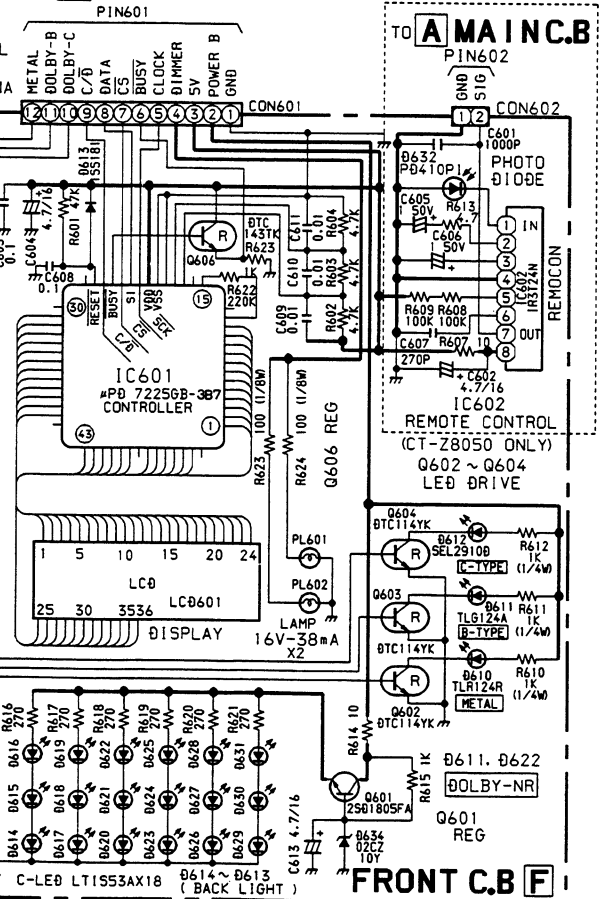
C.B **IBLE C.B**

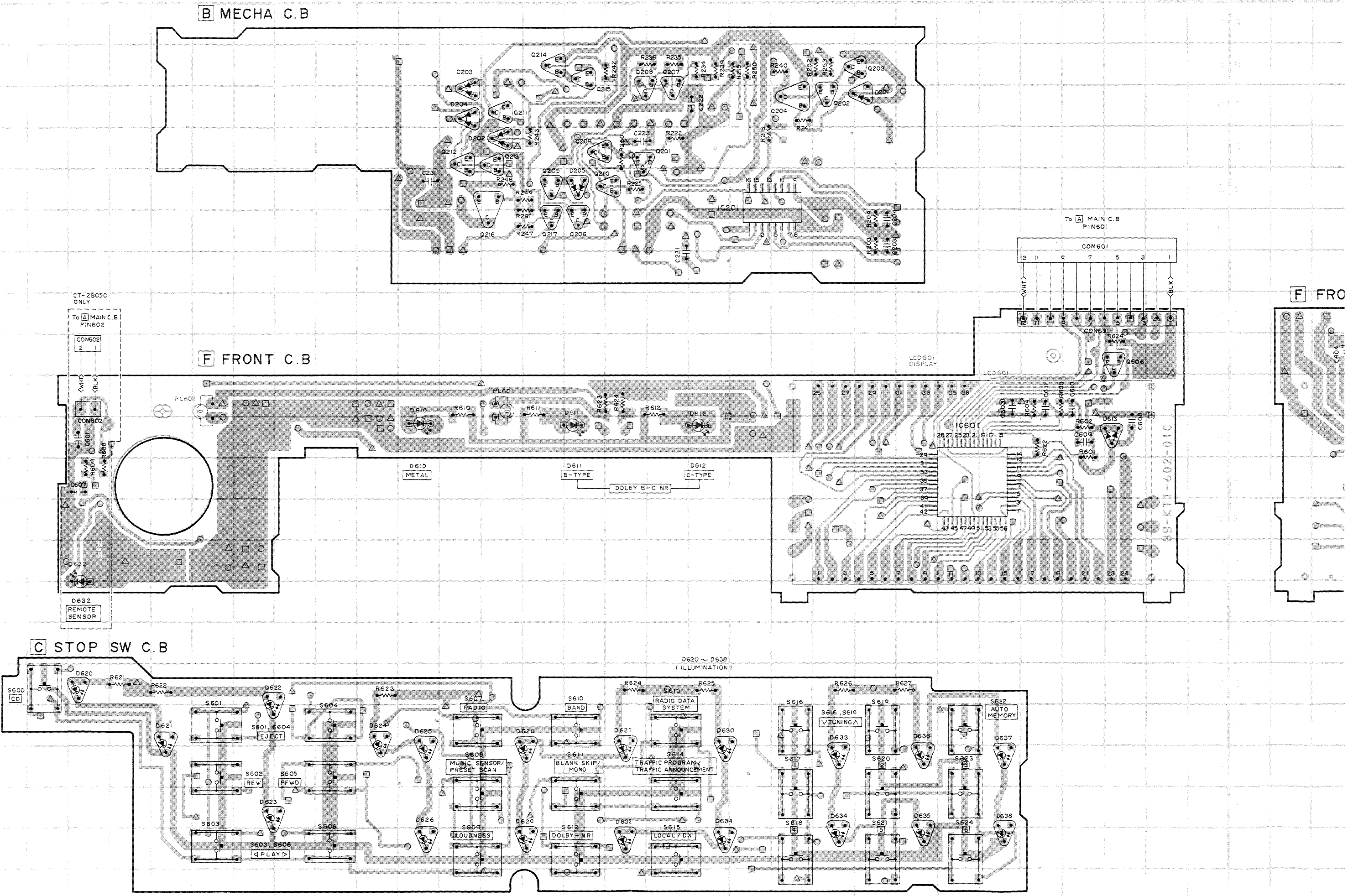


D POWER C.B (CT-Z8050)

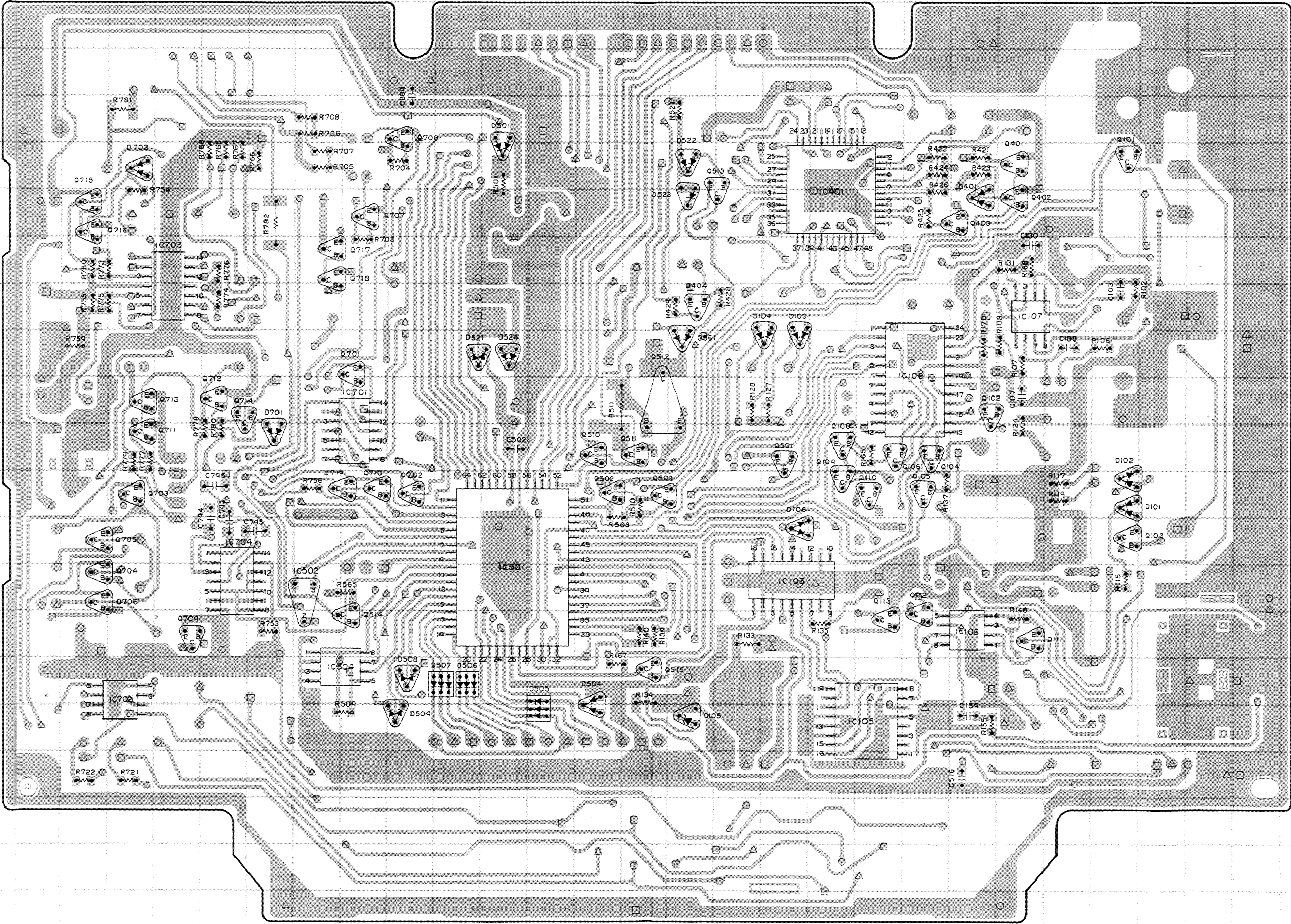


A MAIN C.B

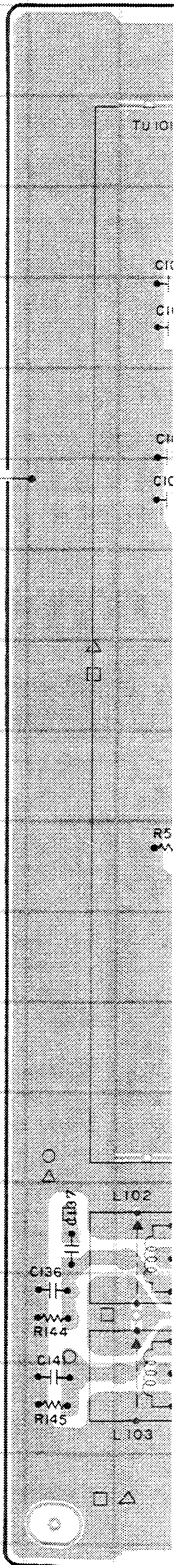




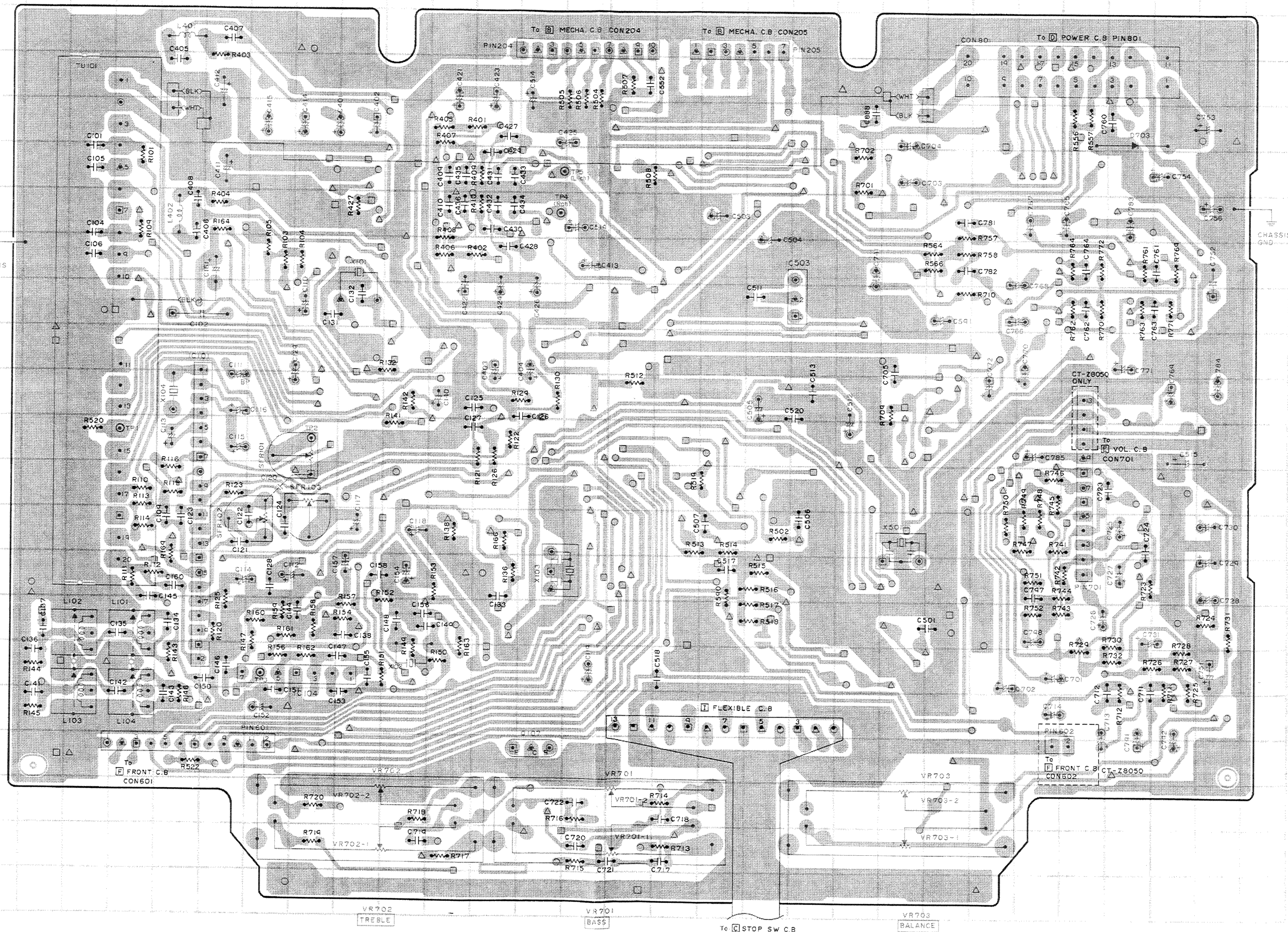
A MAIN C.B



A M



A MAIN C.B



TO **C** STOP C.B
VIA **I** FLEXIBLE C.B

SERVICE JIG

This is an extension circuit board which connects the mechanism block (B MECHA C.B) and main block (A MAIN C.B) when servicing.

Part No. and Description
09-047-490-01 EXT. CON KIT

1. How to connect

- (1) Solder the 7-pin connector (M) and 10-pin connector (M) to board A. (Be careful of the direction of the connectors.)
- (2) Solder the 7-pin connector (F) and 10-pin connector (F) to board B. (Be careful of the direction of the connectors.)
- (3) Cut one pin of the 11-pin flat cable to create a 10-pin cable.
- (4) Connect boards A and B using the 7-pin and 10-pin flat cables. (Fig. 1)

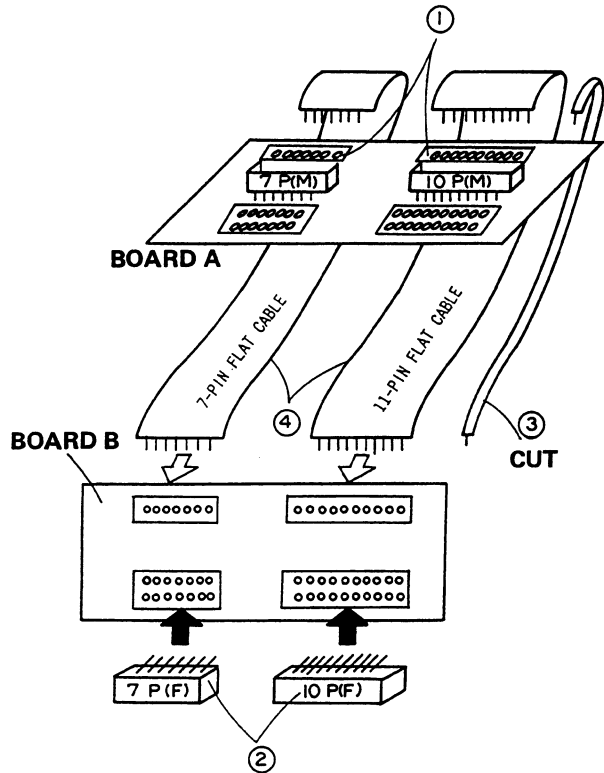


Fig. 1

2. How to use

- (1) Attach board A to the mechanism block (B MECHA C.B).
- (2) Attach board B to the main block (A MAIN C.B). (Fig. 2)

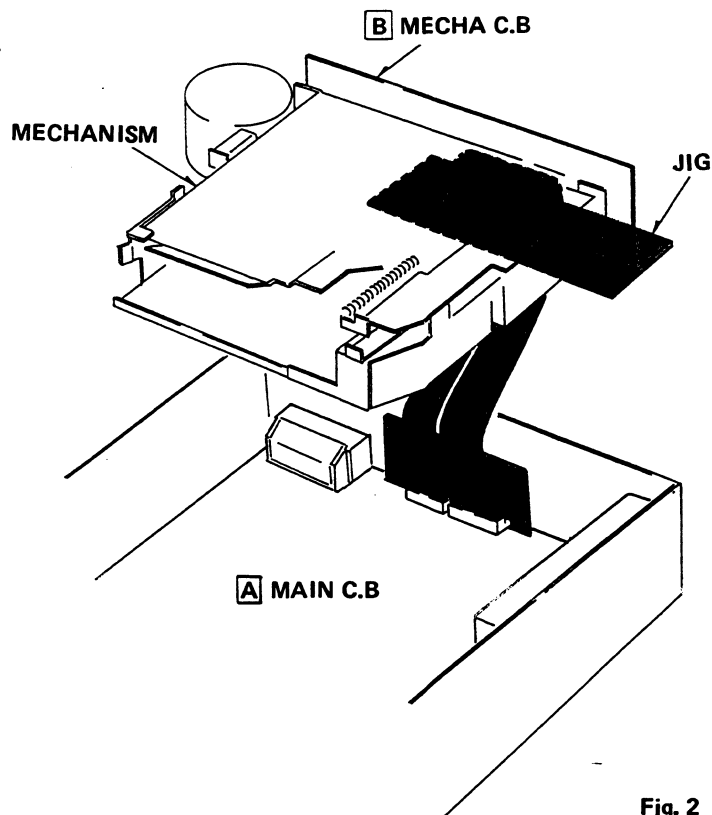
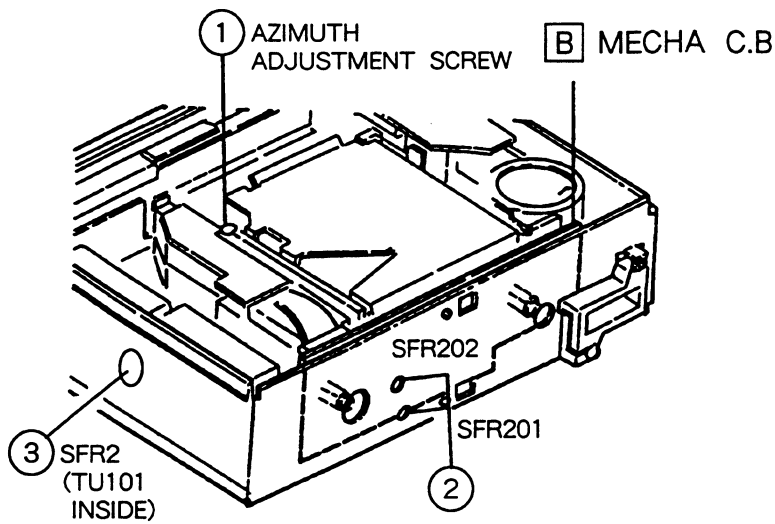


Fig. 2

ADJUSTMENT



1. Head Azimuth Adjustment
Settings : • Test pc
• Test ta
• Adjustn

Method : Adjust ir
adjusted

2. PB Level Adjustment
Settings : • Test ta
• Test pc
• Adjustn

• Dolby S
Method : Play back
output b

Note : Perform
the output

3. FM Sensitivity Adjustment
Settings : • Test pc
• ST/MC
• BAND :
• TP/TA
• RDS SV
• LO/DX
• LOUD :
• Input s
• Adjustn

Method : Adjust se
minimum

4. Auto stop Sensitivity
Settings : • Test pc
• ST/MC
• BAND :
• TP/TA
• RDS SV
• LO/DX
• LOUD :
• Input s
• Adjustn

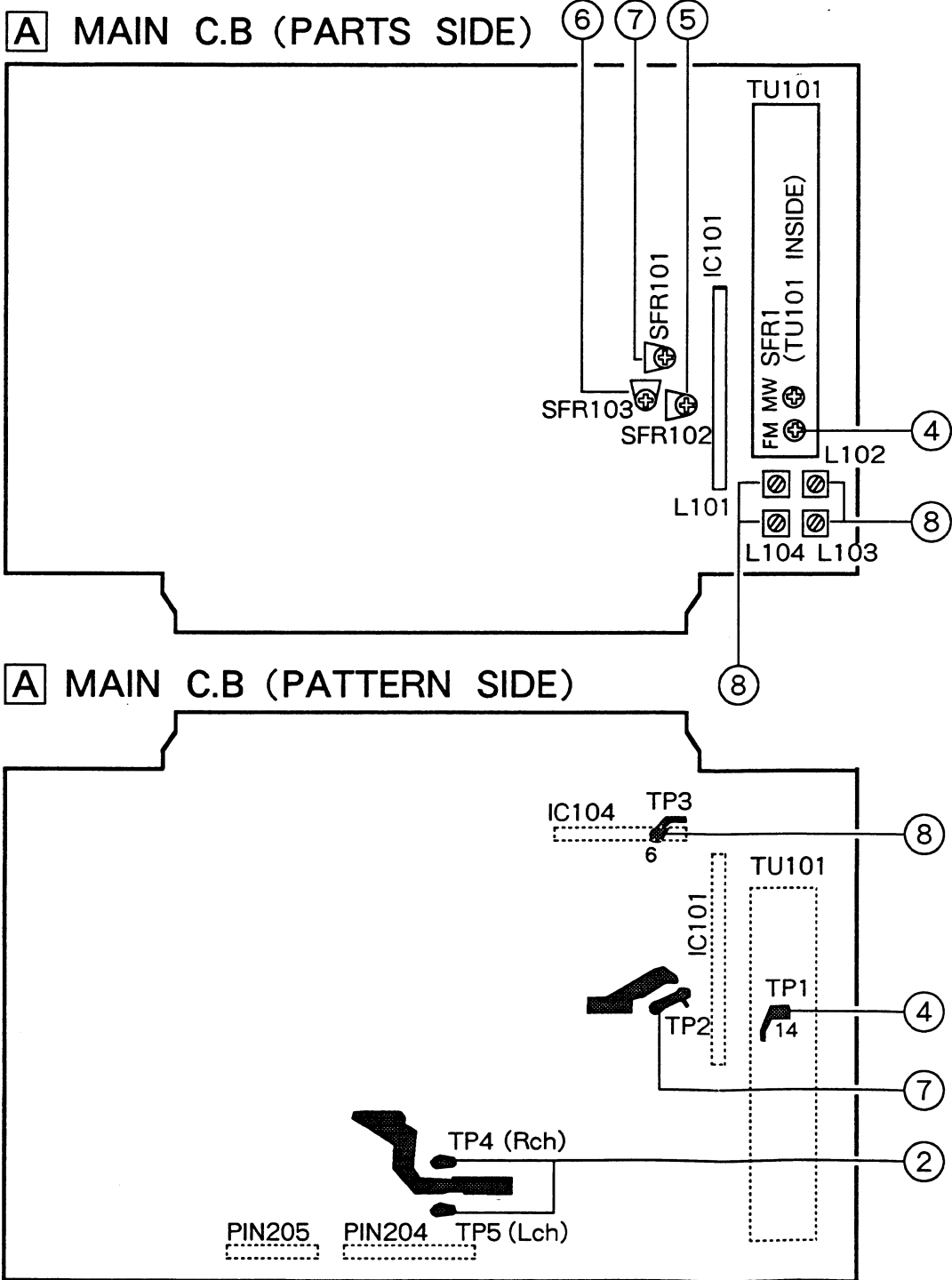
Method : Adjust se
becomes

Remove 1
Confirm

23dB ± 3c
19dB.

5. 19kHz Pilot Signal
Settings : • Test pc
• ST/MC
• BAND :
• TP/TA
• RDS SV
• LO/DX
• LOUD :
• Input si
• Adjustn

Method : Adjust fc
signal.



ADJUSTMENT

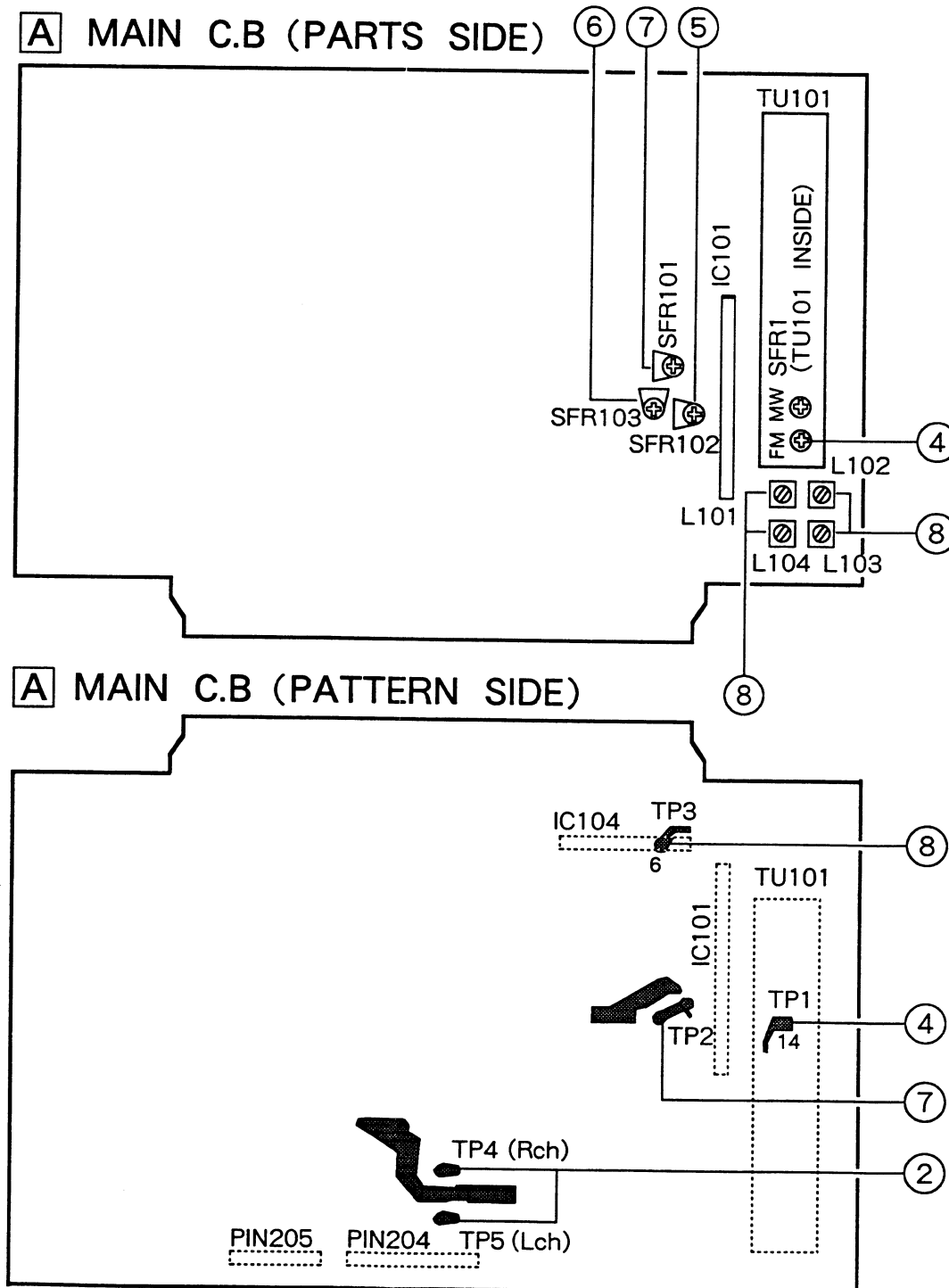
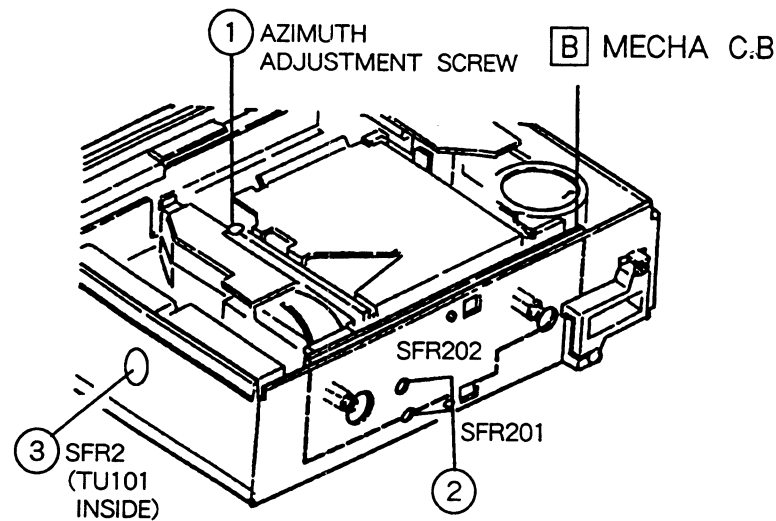


Fig. 1

Fig. 2

1. Head Azimuth Adjustment

- Settings : • Test point : SP output
• Test tape : TTS-310 (TTA-317E, SCC-1429)
• Adjustment location : Head azimuth adjustment screw

Method : Adjust in the PLAY mode. Azimuth can be adjusted in both forward and reverse direction.

2. PB Level Adjustment

- Settings : • Test tape : TTS-200 (TTA-161, TCC - 130)
• Test point : TP5 (L ch), TP4 (R ch)
• Adjustment location : SFR201 (L ch) SFR202 (R ch)

• Dolby SW : OFF
Method : Play back the test tape and adjust so that the output becomes $245\text{mV} \pm 10\text{mV}$.

Note : Perform on REV PLAY mode, adjust so that the output becomes $245\text{mV} \pm 1.5\text{dB}$.

3. FM Sensitivity Adjustment

- Settings : • Test point : SP output
• ST/MO SW : ST
• BAND SW : FM1
• TP/TA SW : OFF
• RDS SW : OFF
• LO/DX SW : DX
• LOUD SW : OFF
• Input signal : FM 98.0MHz, 35dB, 1kHz
• Adjustment location : SFR2 (TU101 inside)

Method : Adjust so that the distortion becomes minimum.

4. Auto stop Sensitivity Adjustment

- Settings : • Test point : TP1
• ST/MO SW : ST
• BAND SW : FM1
• TP/TA SW : OFF
• RDS SW : OFF
• LO/DX SW : DX
• LOUD SW : OFF
• Input signal : FM 98.0MHz, 26dB, 1kHz
• Adjustment location : SFR1 (TU101 inside)

Method : Adjust so that the voltage of test point becomes $2.0\text{V} \pm 0.5\text{V}$.
Remove the DC voltmeter from the test point. Confirm the frequency automatically stops at $23\text{dB} \pm 3\text{dB}$ input and does not stop less than 19dB.

5. 19kHz Pilot Signal Cancel Adjustment

- Settings : • Test point : SP output
• ST/MO SW : ST
• BAND SW : FM1
• TP/TA SW : OFF
• RDS SW : OFF
• LO/DX SW : DX
• LOUD SW : OFF
• Input signal : FM 98.0MHz, 66dB, no mod.
• Adjustment location : SFR102

Method : Adjust for minimum output of 19kHz pilot signal.

6. Separation Adjustment

- Settings : • Test point : SP output
• ST/MO SW : ST
• BAND SW : FM1
• TP/TA SW : OFF
• RDS SW : OFF
• LO/DX SW : DX
• LOUD SW : OFF
• Input signal : FM 98.0MHz, 66dB, 1kHz
• Adjustment location : SFR103

Method : Adjust for maximum separation (more than 23dB).

7. SNC Adjustment

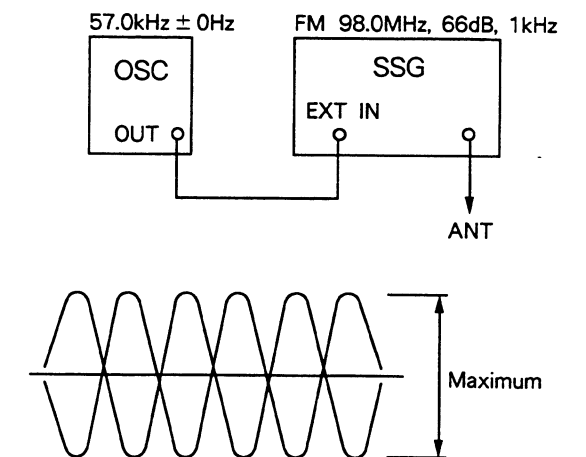
- Settings : • Test point : TP2
• ST/MO SW : ST
• BAND SW : FM1
• TP/TA SW : OFF
• RDS SW : OFF
• LO/DX SW : DX
• LOUD SW : OFF
• Input signal : FM 98.0MHz, 35dB, 1kHz
• Adjustment location : SFR101

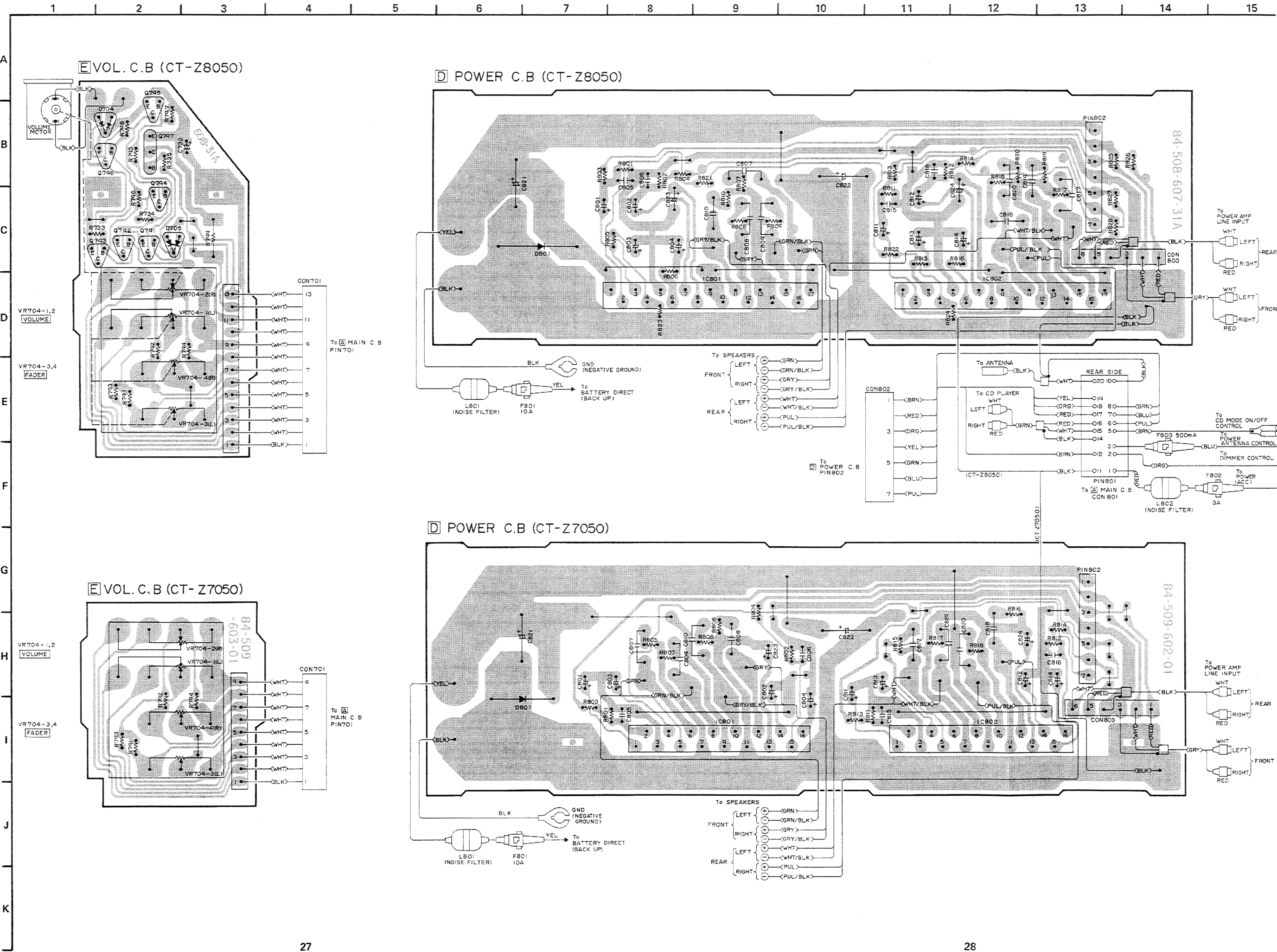
Method : Adjust so that the voltage of test point becomes $3.7\text{V} \pm 0.2\text{V}$.
Check the separation of $6\text{dB} \pm 4\text{dB}$.

8. RDS Adjustment

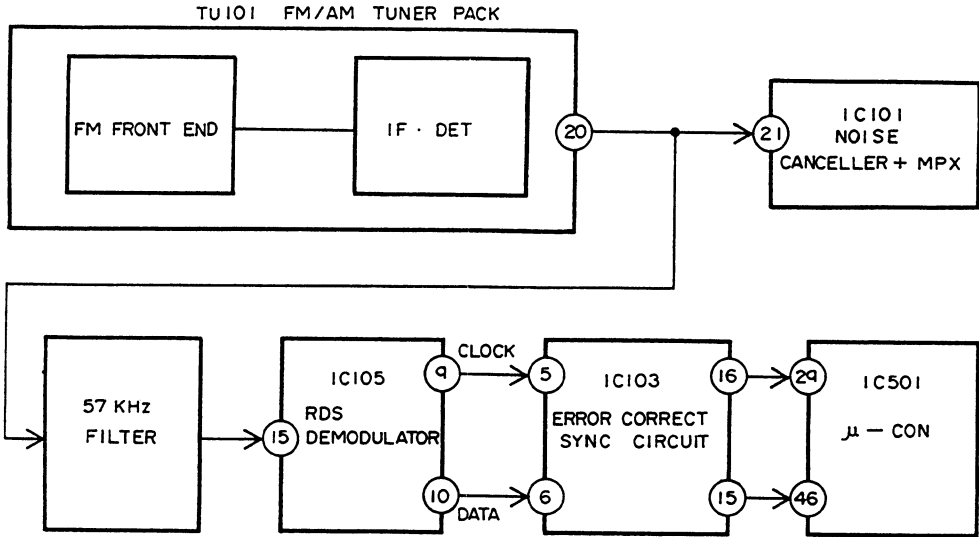
- Settings : • Test point : TP3 (IC104 pin 6)
• ST/MO SW : ST
• BAND SW : FM1
• TP/TA SW : OFF
• RDS SW : OFF
• LO/DX SW : DX
• LOUD SW : OFF
• Input signal : FM 98.0MHz, 66dB, 1kHz
57.0kHz (Oscillator)
• Adjustment location : L101, L102, L103, L104

Method : Adjust so that the wave form becomes maximum.





CIRCUIT DESCRIPTION



The detected composite signal is applied to the 57kHz bandpass filter and only the RDS signal is extracted. The RDS signal is decoded by RDS demodulator IC105 (SAF7579T). IC105 divides the RDS signal into the clock and data blocks and outputs it to IC103 (LC7071) which synchronizes it for error correction and applies it to microprocessor IC501 (μ PD75112).

IC DESCRIPTION

IC, LC7071NM

Pin No.	Pin Name	I/O	Description
1	OSC1	I	4MHz ceramic resonator connection.
18	OSC2	O	
2,3		—	Connected to GND.
4	RES	I	System reset input.
5	CLOCK IN	I	RDS demodulation clock input.
6	DATA IN	I	RDS demodulation data input.
7	CORD SEL	—	Connected to VDD.
8	CORD SEL	—	Connected to GND.
9	VDD	—	Power supply pin.
10	RECEIVE	O	Output when receiving RDS data signal.
11	D.S.CON	—	Connected to GND.
12,13	CORRECTION ERROR	—	Unused.
14	DATA START	O	Block DATA START signal for serial data output. Pull-up.
15	DATA OUT	O	Serial data output. Pull-up.
16	CLOCK OUT	O	Serial data clock output. Pull-up.
17		—	Connected to GND.

IC, μ PD75112GF-562

Pin No.	Pin Name	I/O	Description
1	SOL1	O	Output to control the FF solenoid in the tape mechanism. "High" output turns the solenoid on and "LOW" output turns it off. FWD (FF : Low, REW : High), REV (FF : High, REW : Low)
2	CD CON	O	CD control output. Outputs "High" in the CD mode.
3	MUTE	O	Muting output. Prevents noise when the mode is switched, etc.
4	LOUD	O	Loudness output. When the LOUD key is pressed in the RADIO, CD or TAPE mode, this pin outputs a signal to turn the loudness on or off.
5	VR UP	O	Volume increasing output. Outputs "High" when the volume up key is pressed.
6	VR DOWN	O	Volume decreasing output. Outputs "High" when the volume down key is pressed.
7	RESET	I	Reset pin.
8	X2	O	Clock oscillating pins (4.19MHz).
9	X1	I	
10	TA	O	If, when the TP mode is turned on with the radio functioning, an RDS signal TA (traffic announcement) occurs, this pin outputs "High".
11	$\overline{CS}$	O	Chip select control output for IC μ PD6253.
12	MEMO I/O	I/O	Serial data input/output for ICs μ PD6253 and LC7218.
13	MEMO SCL	O	Clock output ICs μ PD6253 and LC7218.
14,15	A0, A1	O	Key scan signal outputs.
16	D0	O	
21	D5	O	
22	K0	I	Key data inputs.
25	K3	I	
26	VSS	—	Connected to GND.
27	DATA START	I	Control input from IC LC7070N. Signal to start transmitting a block of serial data.
28	REEL IN	I	Pulse input when the reel disk is rotating.
29	CLOCK IN	I	Shift clock input when receiving serial data from IC LC7071.
30	REMOCON IN	I	Remote control signal input.
31			Connected to GND (unused).
32			
33			
34	METER	I	Voltage measurement input.
35	ST OUT	O	Auto search stop signal (input near a broadcasting frequency).
36	ST ING	I	Turns the stereo indicator on or off when the radio receives an FM broadcast. High : Indicator ON, Low : Indicator OFF
37	C/D	O	Control output for IC μ PD7225. Controls the division of data to be transmitted serially. Low : Data, High : Command
38	$\overline{CS}$	O	Chip select control output for IC μ PD7225.
39	BEEP	O	Beep sound output (normally 2kHz). Outputs a 2.7kHz beep when an input is given from the remote control.
40	CE	O	Chip select control output for IC LC7218.
41	SI	I	Serial data input from IC LC7218.
42	DATA	O	Serial data output to IC μ PD7225.
43	CLOCK	O	Serial clock output to IC μ PD7225.
44	RDS	I	RDS signal detection input. Low : RDS signal present, High : RDS signal not present
45	BUSY	I	Control input from IC μ PD7225. Instructs to inhibit or accept the input of serial data. Inhibits the input at "Low".

Pin No.	Pin Name	I/O	Description
46	DATA IN	I	Serial data input from IC LC7071.
47	—	—	Connected to GND (unused).
48	CE	O	Power off input. "Low" input causes power to be switched off. However, the EJECT key is accepted approx. 5 minutes after this pin goes "Low".
49	DOLBY C	O	Control output for Dolby C NR. This pin turns off (Low) when the Dolby C NR button is pressed to switch off the Dolby C NR.
50	DOLBY B	O	Control output for the Dolby B NR.
51	RADIO CON	O	Outputs "High" when the radio is turned on. Outputs "Low" when TAPE and CD are in the OFF mode.
52	POWER CON	O	Outputs "High" when the unit enters the RADIO, TAPE, CD, TEST or CODE mode after CE goes "High".
53	BLANK IN	I	Detects whether a signal is recorded on the tape which is running or not. Detects that a signal is recorded at "High" input.
54	TAPE IN	I	Input to detect that a cassette is inserted. High : A cassette is inserted.
55	CD IN	I	When this pin goes "High" in the TAPE or RADIO mode, the unit is switched to the CD mode.
56	MS IN	I	Receives pulses which detect non-recorded section between tracks. Detects a non-recorded section between tracks when a pulse of 10 ms or more is input in the FF or REW mode during MS operation.
57	NC	—	Connected to GND (unused).
58	VDD	—	Power supply pin (5V).
59	RADIO +B	O	Outputs "Low" in the RADIO mode and during seek, auto memory and AF operations in any mode other than the RADIO mode.
60	FOR/REV IN	I	Forward/reverse input. Detect whether the tape is running forward or in reverse. High : FWD, Low : REV
61	MS IC CON	O	Output to control the gain of the MS IC. Outputs "High" in the PLAY mode during the BLANK-SKIP operation.
62	MOTOR	O	Tape mechanism motor control output.
63	SOL3	O	Output to control the REV solenoid in the tape mechanism. High : ON, Low : OFF
64	SOL2	O	Output to control the REW solenoid in the tape mechanism. High : ON, Low : OFF

PRACTICAL SERVICE FIGURE

< Tuner section >

IHF sensitivity : FM : 5 ± 5dB
(THD 3%, 98MHz)
S/N 54dB sensitivity : FM : More than 48dB (98MHz)
S/N 20dB sensitivity : MW : 30 ± 5dB (999kHz)
Intermediate frequency : FM : 10.7MHz
AM : 450kHz
Stereo separation : 26 ± 9dB (98MHz)

< Tape section >

Take-up torque : 55 ± 20g-cm
F.F & REW torque : 95 ± 35g-cm

CXA1097Q

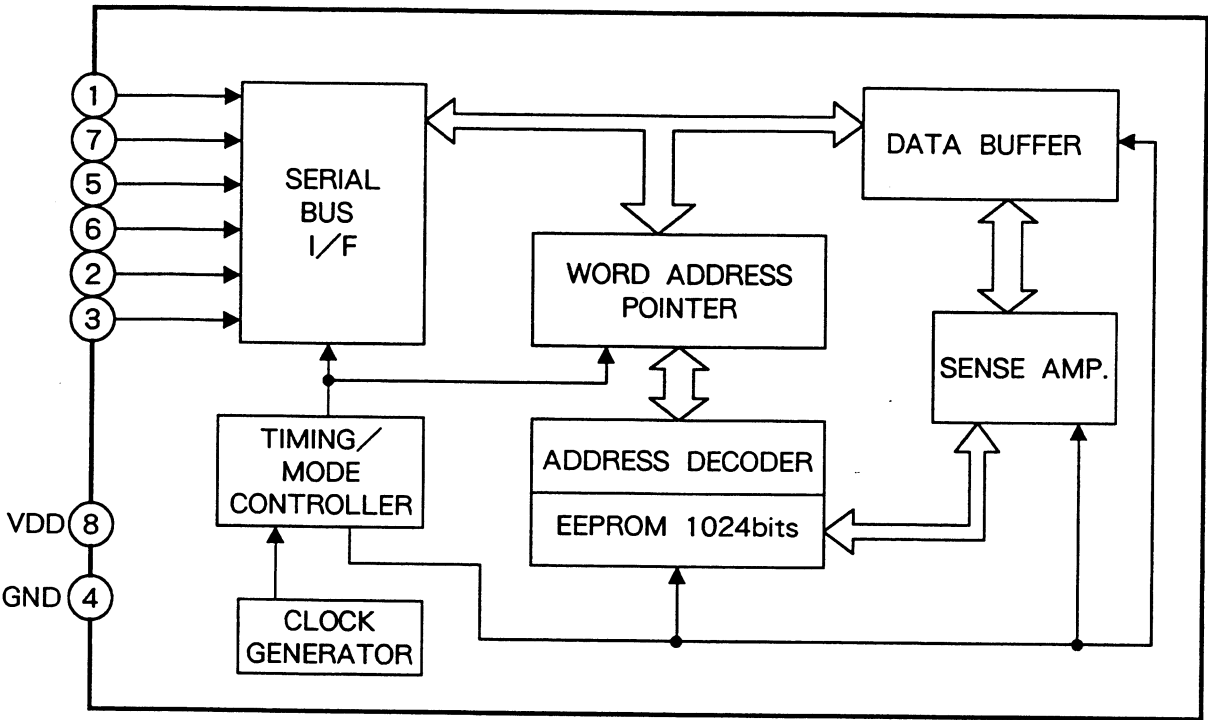
Pin No.	Pin Name	I/O	Description
1,4	—	—	—
2	TP IN	I	TAPE play input. (Rch)
3	GND	—	GND.
5	IREF	I	Reference current input.
6	RADIO/TP	I	RADIO/TAPE switching terminal.
7	B/C	I	Dolby B/C NR type switching terminal.
8	ON/OFF	I	Dolby NR on/off switching terminal.
9,12	—	—	—
10	VCC	—	Positive power supply pin.
11	TP IN	I	TAPE play input. (Lch)
13	RADIO IN	I	RADIO input. (Lch)
14	VCC/2	O	VCC/2 terminal. (Lch)
15	LINE OUT	O	Line output. (Lch)
16	SSK	I	Spectrum skewing switching terminal. (Lch)
17	VF IN	I	Encoder circuit input. (Lch)
18,19	—	—	—
20	HPF H	I	HLS highpass filter terminal. (Lch)
21	TCH2	I	HLS detector time constant terminal 2. (Lch)
22	TCH1	I	HLS detector time constant terminal 1. (Lch)
23	WT H	I	HLS weighting terminal. (Lch)
24	TCL2	I	LLS detector time constant terminal. (Lch)
25,36	—	—	—
26	TCL1	I	LLS detector time constant terminal. (Lch)
27	WT L	I	LLS weighting terminal. (Lch)
28	HPF L	I	LLS highpass filter terminal. (Lch)
29	ANT S	I	Anti-saturation terminal. (Lch)
30	REC OUT	O	Recording output (Dolby NR test point). (Lch)
31	REC OUT	O	Recording output (Dolby NR test point). (Rch)
32	ANT S	I	Anti-saturation terminal. (Rch)
33	HPF L	I	LLS highpass filter terminal. (Rch)
34	WT L	I	LLS weighting terminal. (Rch)
35	TCL1	I	LLS detector time constant terminal. (Rch)
37	TCL2	I	LLS detector time constant terminal. (Rch)
38	WT H	I	HLS weighting terminal. (Rch)
39	TCH1	I	HLS detector time constant terminal 1. (Rch)
40	TCH2	I	HLS detector time constant terminal 2. (Rch)
41	HPF H	I	HLS highpass filter terminal. (Rch)
42,43	—	—	—
44	VF IN	I	Encoder input terminal. (Rch)
45	SSK	I	Spectrum skewing switching terminal. (Rch)
46	LINE OUT	O	Line output terminal. (Rch)
47	GND	—	VCC/2 terminal. (Rch)
48	RADIO IN	I	RADIO input. (Rch)

IC, μ PD7225GB-3B7

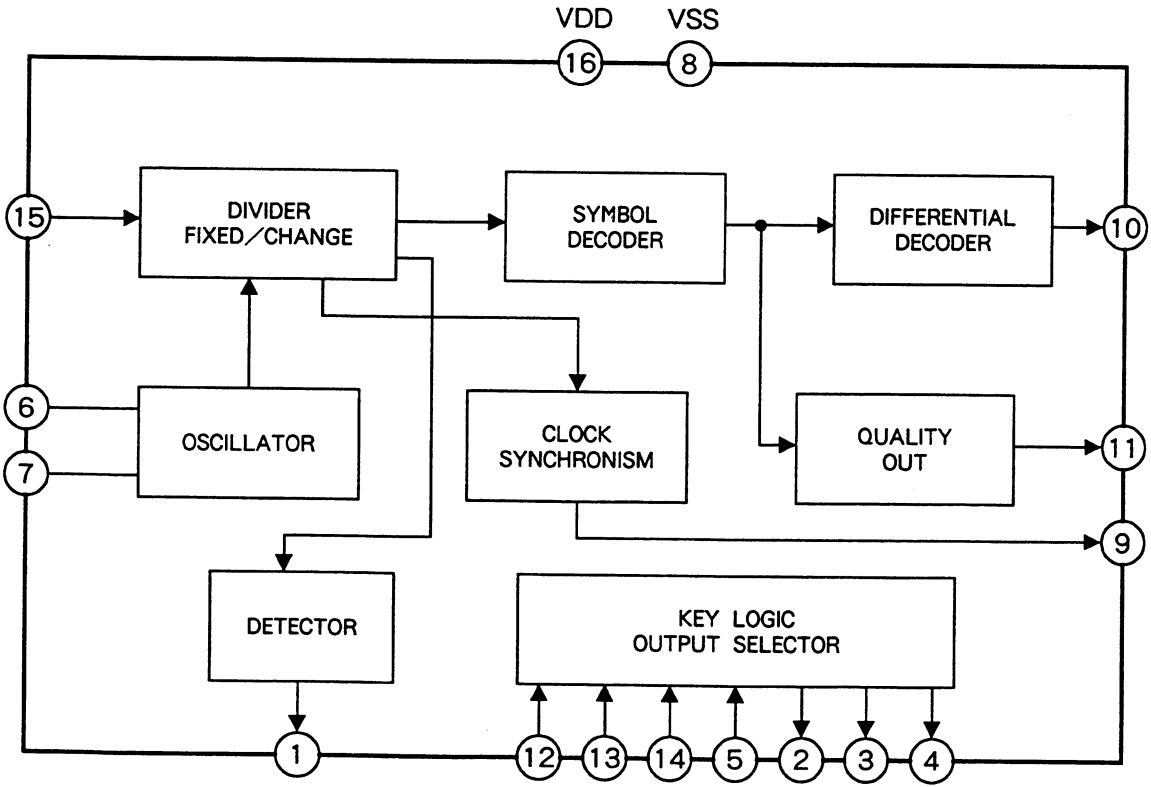
Pin No.	Pin Name	I/O	Description
1	S20	O	LCD display segment output.
12	S31		
13	CL1		
15	CL2	O	Clock oscillator is connected to these pins.
14	NC	-	
16	NC	-	Unused.
17	VLC1	-	Negative power supply pins for the LCD drive.
18	VLC2	-	
19	VLC3	-	
20	VSS	-	Connected to GND.
21	VDD	-	Power supply pin.
22	SCK	I	Serial data clock input.
23	SI	I	Serial data input.
24	CS	I	Chip select input.
25	BUSY	O	BUSY output.
26	C/D	I	Command/data select input.
27	RESET	I	Reset input.
28	NC	-	Unused.
29	NC	-	
42	NC	-	
30	COM0	O	LCD display common output.
33	COM3		
34	S0	O	LCD display segment output.
41	S7		
43	S8		
48	S13	O	LCD display segment output.
49	VDD	-	
50	S14	O	
55	S19	O	LCD display segment output.
56	NC	-	Unused.

IC BLOCK DIAGRAM

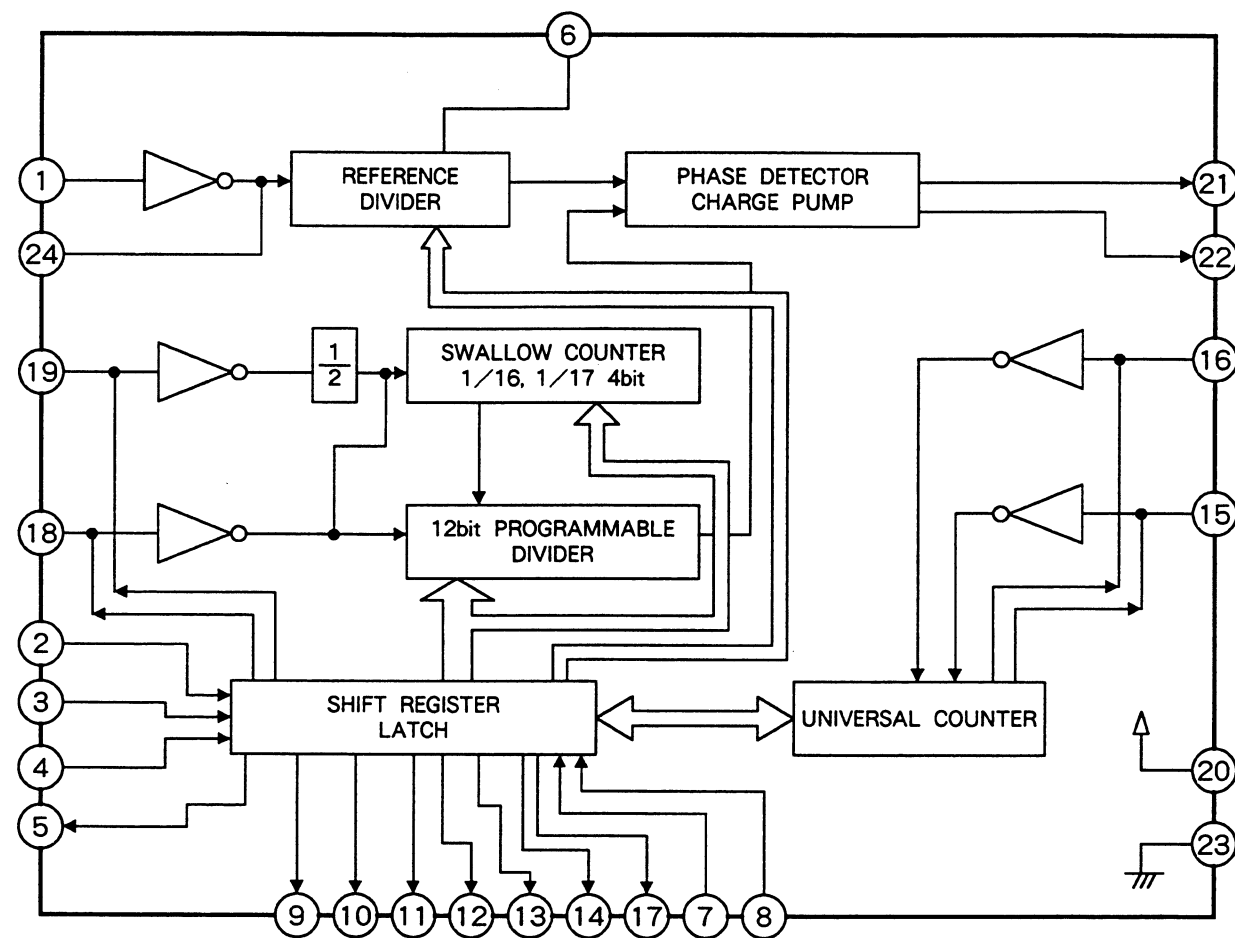
IC,UPD6253



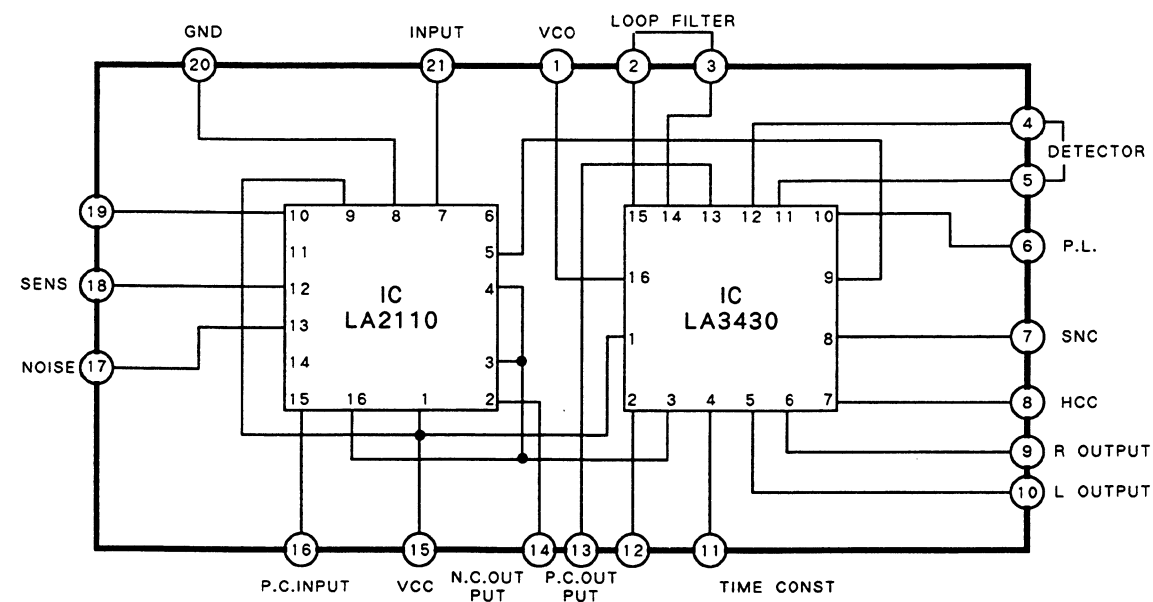
IC,SAF7579T



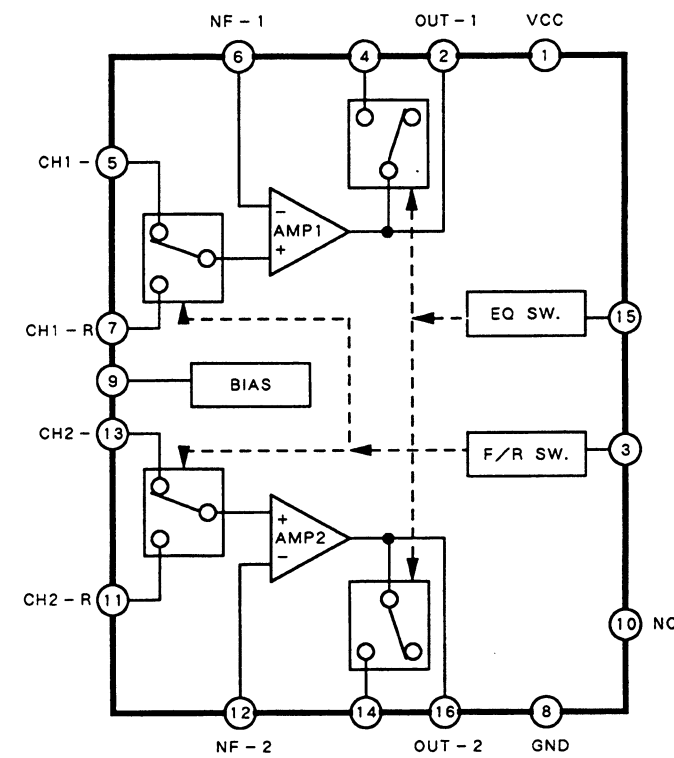
IC,LC7218M



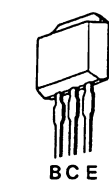
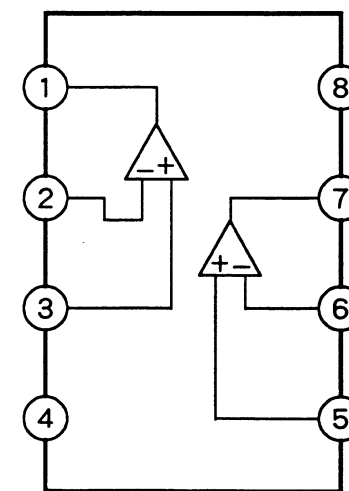
IC,STK3400A



IC,TA7705F



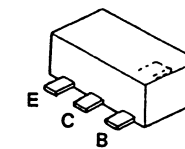
IC,NJM2904M



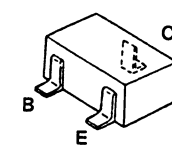
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2SD1805



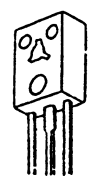
2SC2673



2SA1213
2SC2873

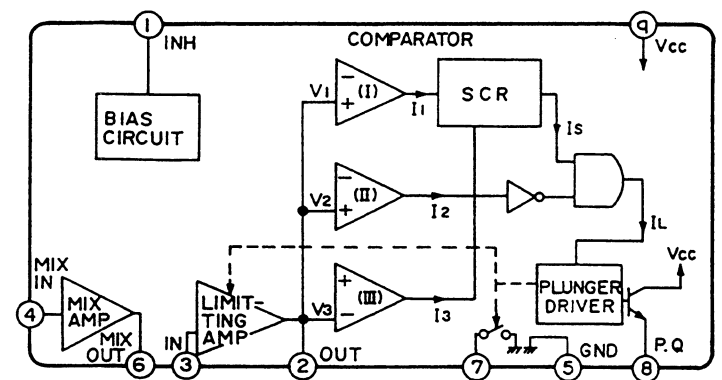


2SA1162
2SA1362
2SC2712
2SC3265
DTA114
DTA124
DTA143
DTB123
DTC114
DTC124
DTC143
DTC343

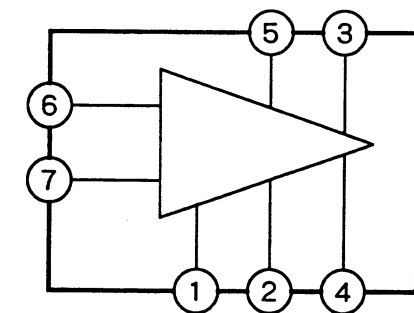


2SC1846

TA7341P

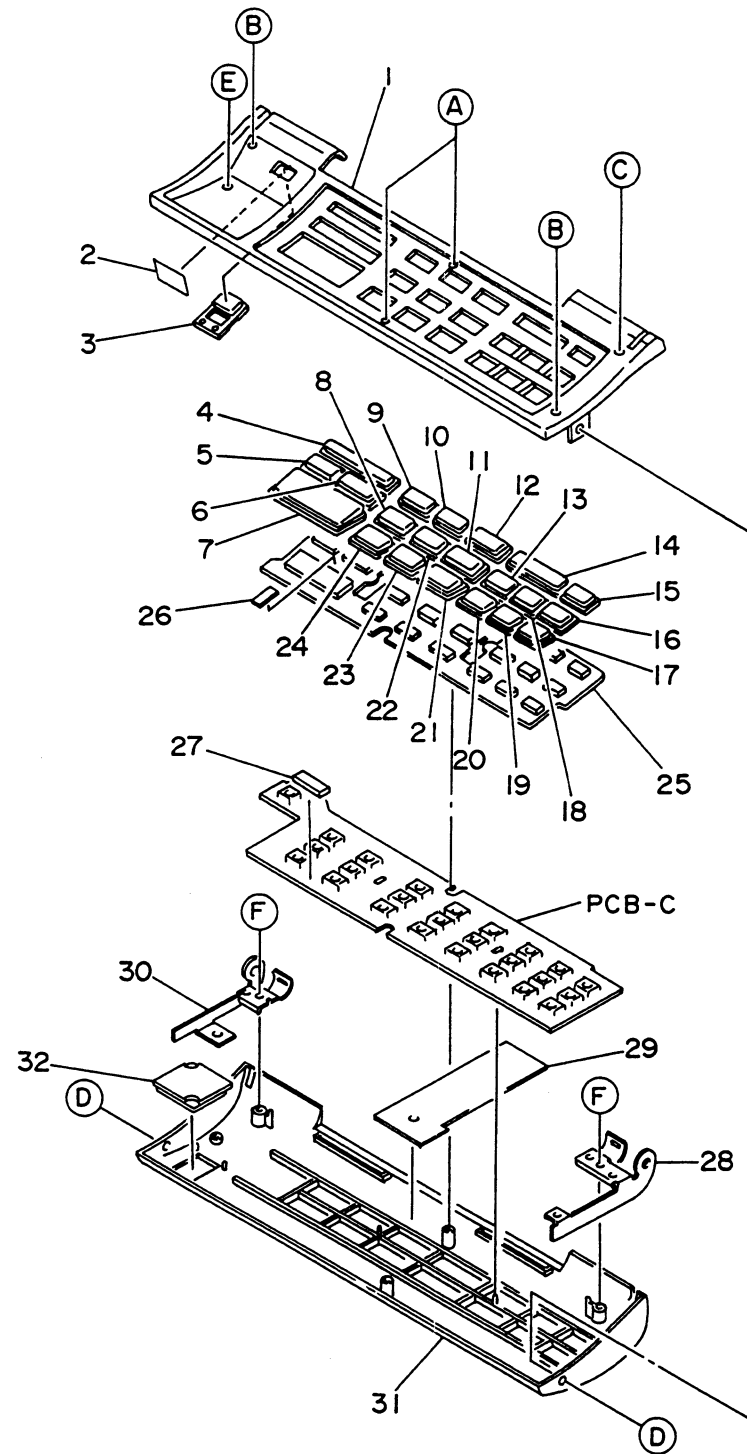


IC,TA7061BP



EXPLODED VIEW - 1

REF.NO.	PART NO.	DESCRIPTION
A	87-067-384-010	VT+1.4-3.5HL
B	87-261-528-310	V+1.7-3.5(B)
C	87-261-532-310	V+1.7-5.5(B)
D	87-232-526-310	Q+1.7-2.8(B)
E	87-067-385-010	VT1.4-2.5
F	87-067-685-010	SPECIAL SCREW 2.6-5

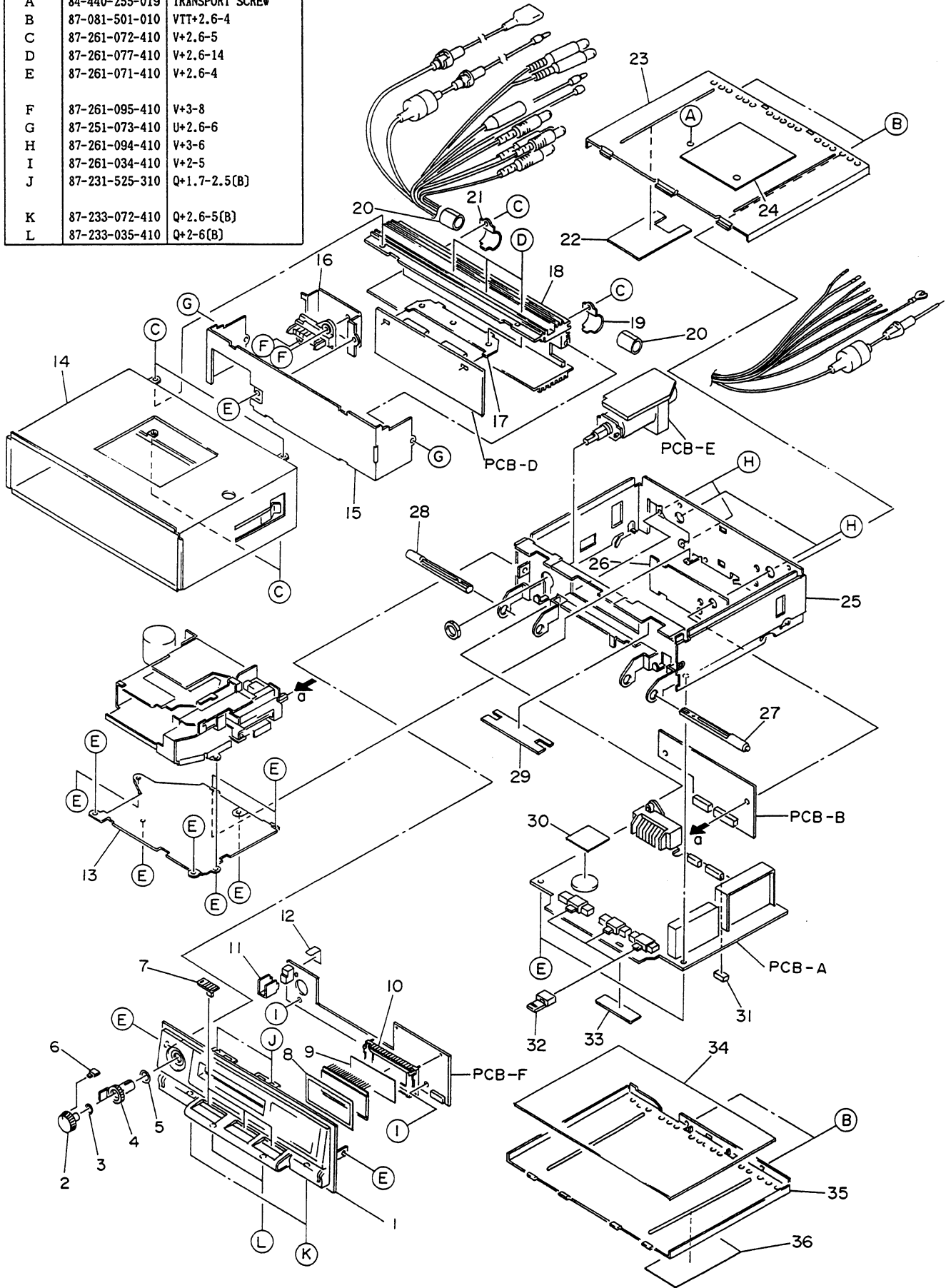


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1-1	*84-509-004-010	PANEL, OPERATION T (CT-Z7050)		1
	1-1	*84-508-005-010	PANEL, OPERATION T (CT-Z8050)		1
	1-2	---	SHEET, BUTTON CD		1
	1-3	*84-508-011-010	KNOB, CD		1
	1-4	*84-508-028-010	BUTTON, PUSH EJECT		1
	1-5	*84-508-026-010	BUTTON, PUSH REW		1
	1-6	*84-508-027-010	BUTTON, PUSH FF		1
	1-7	*84-508-025-010	BUTTON, PUSH PLAY		1
	1-8	*84-508-015-010	BUTTON, PUSH MS		1
	1-9	*84-508-014-010	BUTTON, PUSH RADIO		1
	1-10	*84-508-030-010	BUTTON, PUSH BAND		1
	1-11	*89-KT1-004-010	BUTTON, PUSH TP/TA	*	1
	1-12	*89-KT1-003-010	BUTTON, PUSH RDS	*	1
	1-13	*84-508-019-010	BUTTON, PUSH 1		1
	1-14	*84-508-017-010	BUTTON, PUSH TUNING		1
	1-15	*84-508-018-010	BUTTON, PUSH AUTO		1
	1-16	*84-508-021-010	BUTTON, PUSH 3		1
	1-17	*84-508-024-010	BUTTON, PUSH 6		1
	1-18	*84-508-020-010	BUTTON, PUSH 2		1
	1-19	*84-508-023-010	BUTTON, PUSH 5		1
	1-20	*84-508-022-010	BUTTON, PUSH 4		1
	1-21	*89-KT1-005-010	BUTTON, PUSH LOC	*	1
	1-22	*89-KT1-010-010	BUTTON, PUSH B.S/MO	*	1
	1-23	*84-508-034-010	BUTTON, PUSH DOLBY		1
	1-24	*84-508-016-010	BUTTON, PUSH LOUD		1
	1-25	*84-508-208-110	HINGE, BUTTON PUSH		1
	1-26	---	SHEET, 7-2-0.1		1
	1-27	*84-508-267-010	G-CUSHION, 23-3.5		1
	1-28	*84-508-243-110	CLICK PLATE-R ASSY		1
	1-29	*84-508-229-210	GUIDE, FLEX. WIRE		1
	1-30	*84-508-242-010	CLICK PLATE-L ASSY		1
	1-31	*84-509-005-210	PANEL, OPERATION B (CT-Z7050)		1
	1-31	*84-508-006-210	PANEL, OPERATION B (CT-Z8050)		1
	1-32	*84-508-013-010	LENS, PANEL OPERATION		1

EXPLODED VIEW - 2

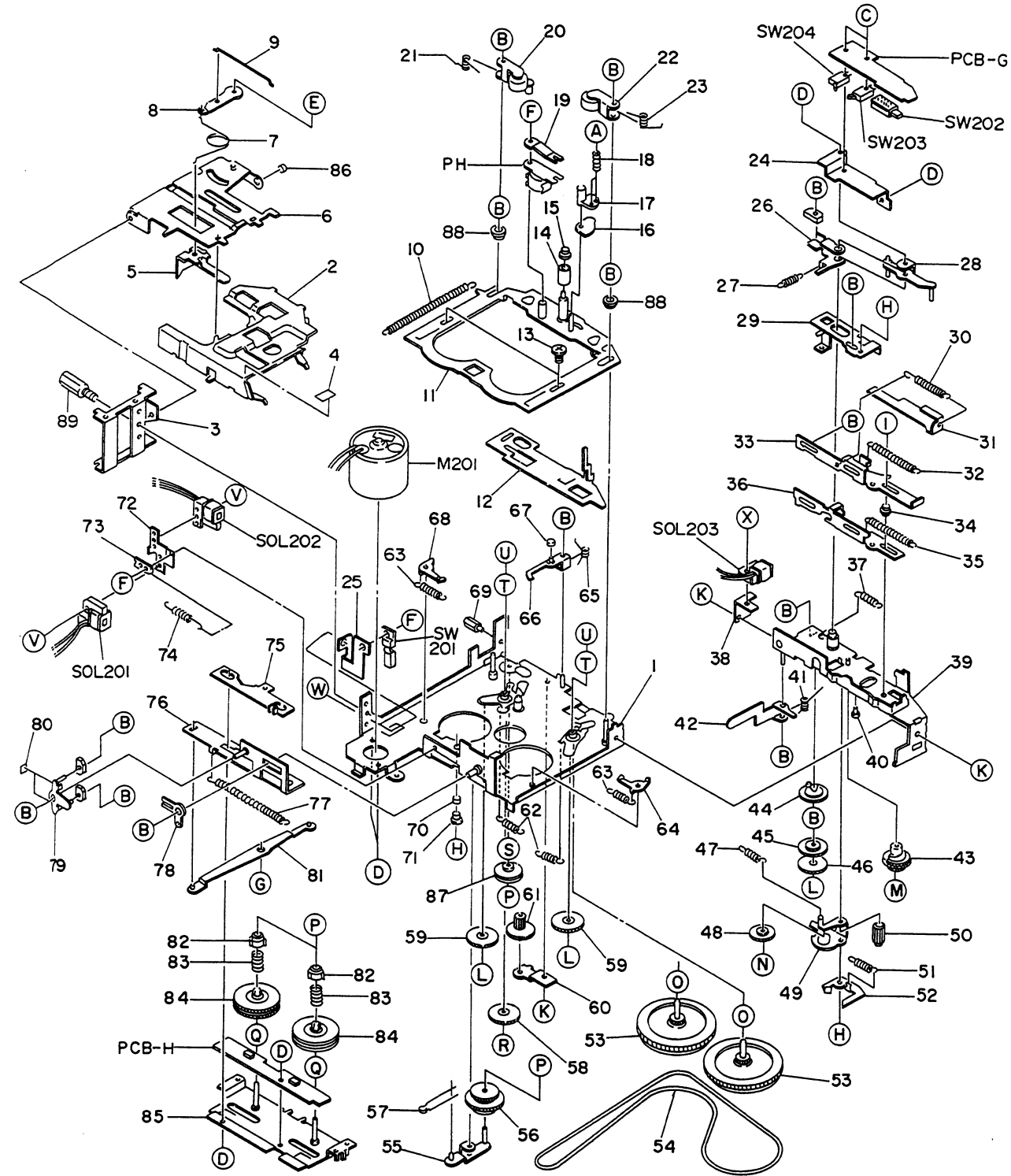
REF.NO.	PART NO.	DESCRIPTION
A	84-440-255-019	TRANSPORT SCREW
B	87-081-501-010	VTT+2.6-4
C	87-261-072-410	V+2.6-5
D	87-261-077-410	V+2.6-14
E	87-261-071-410	V+2.6-4
F	87-261-095-410	V+3-8
G	87-251-073-410	U+2.6-6
H	87-261-094-410	V+3-6
I	87-261-034-410	V+2-5
J	87-231-525-310	Q+1.7-2.5(B)
K	87-233-072-410	Q+2.6-5(B)
L	87-233-035-410	Q+2-6(B)



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	2-1	*09-047-595-010	CABINET FRONT ASSY(CT-Z7050)	*	1
	2-1	*09-047-593-010	CABINET FRONT ASSY(CT-Z8050)	*	1
	2-2	*84-508-008-210	KNOB,VOLUME		1
	2-3	*84-508-231-010	SPRING,RING VOLUME		1
	2-4	*84-508-009-210	KNOB,FADER		1
	2-5	*84-508-230-010	SPRING,RING FADER		1
	2-6	*84-508-029-010	GUIDE,LIGHT VOLUME		1
	2-7	*84-508-010-010	KNOB,BALANCE		3
	2-8	*89-KT1-203-110	MASK,LCD	*	1
	2-9	*89-KT1-202-010	FILTER,LCD	*	1
	2-10	---	HOLDER,LCD		1
	2-11	*84-508-247-010	COVER,SHIELD(CT-Z8050)		1
	2-12	---	SHEET,LED(CT-Z8050)		1
	2-13	*84-508-206-110	HOLDER,MECHANISM		1
	2-14	*84-508-213-110	SLEEVE,DIN		1
	2-15	---	PLATE,HEAT SINK		1
	2-16	*84-508-209-010	HOLDER,CONNECTOR		1
	2-17	*89-KT3-201-010	HOLDER,IC(CT-Z7050)	*	1
	2-17	*84-508-221-010	HOLDER,IC(CT-Z8050)		1
	2-18	---	HEAT SINK ASSY		1
	2-19	---	WIRE,CLAMPER		1
	2-20	---	TUBE,WIRE		2
	2-21	---	WIRE,CLAMPER		1
	2-22	*84-508-233-110	MYLAR, TOP		1
	2-23	*84-508-201-110	PANEL, TOP		1
	2-24	*89-KT3-003-010	LABEL,SPEC(CT-Z7050)	*	1
	2-24	*89-KT1-011-010	LABEL,SPEC(CT-Z8050)	*	1
	2-25	*84-508-224-210	CHASSIS FRONT ASSY		1
	2-26	*84-508-228-010	MYLAR, S CHASSIS		1
	2-27	*84-508-256-110	HOLDER CLICK ASSY R		1
	2-28	*84-508-225-210	HOLDER CLICK ASSY		1
	2-29	*84-508-227-010	MYLAR, F CHASSIS		1
	2-30	*84-508-248-010	MYLAR, BATTERY		1
	2-31	---	CUSHION,LED(CT-Z8050)		1
	2-32	*84-508-218-010	JOINT,VOLUME		1
	2-33	*84-508-254-010	SHEET, 30-15		1
	2-34	*84-508-226-110	MYLAR, BOTTOM		1
	2-35	*84-508-210-010	PANEL, BOTTOM		1
	2-36	---	LABEL, WIRING		1

EXPLODED VIEW - 3

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
A	S1-005-050-300	AZIMUTH SCREW	I	S2-111-205-0B1	U+2x5	Q	S2-182-104-041	PW 2.1x4x0.4
B	84-441-003-210	STE-1.5	J	S1-005-051-000	SPECIAL SCREW M2x5	R	S2-182-104-0D2	PW 2.1x4x0.25 CUT
C	S2-101-F07-0H2	U+1.7x7	K	S2-111-L03-0B1	U+2.6x3	S	S2-182-105-0D1	PW 2.1x5x0.25
D	S2-111-203-0B1	U+2x3	L	S2-181-203-0D2	PW 1.2x3x0.25 CUT	T	S2-182-103-2D1	PW 2.1x3.5x0.3
E	87-441-006-010	STE-2.5	M	S2-181-603-252	PW 1.6x3.2x0.5 CUT	U	87-441-010-010	STE 1.6x3.2
F	S2-111-204-0B1	U+2x4	N	S2-182-104-0D1	PW 2.1x4x0.25	V	S2-103-205-0H2	U+2x5.5
G	87-441-009-010	STE-3	O	S2-182-103-231	PW 2.1x3.2x0.5	W	S2-101-203-0H2	M2x3
H	87-441-001-010	STE-1.2	P	S2-181-603-2D2	PW 1.6x3.2x0.25 CUT	X	S1-005-051-000	M2x5



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	3-1	*S1-005-017-500	MAIN CHASSIS ASSY		1
	3-2	*S1-005-013-100	HOUSING, CASSETTE		1
	3-3	*84-508-212-010	HOLDER, MECHANISM	*	1
	3-4	---	CUSHION, CH		1
	3-5	*S1-005-020-400	CATCH		1
	3-6	*S3-005-013-000	HOUSING ARM ASSY		1
	3-7	*S1-005-041-800	SPRING, REVERSE		1
	3-8	*S1-005-013-400	PLATE, CENTER OVER		1
	3-9	*S1-005-050-200	ROD, CENTER OVER		1
	3-10	*S1-005-040-200	SPRING, H/P		1
	3-11	*S3-005-010-500	HEAD PLATE ASSY		1
	3-12	*S1-005-011-200	PLATE, REVERSE		1
	3-13	*S1-005-035-500	SCREW		2
	3-14	---	TUBE, VINYL		1
	3-15	*S1-005-020-200	ROLLER, C H/P		1
	3-16	*S1-005-012-600	PLATE, ADJUSTOR		1
	3-17	*S1-005-020-100	ARM, AZIMUTH		1
	3-18	*S1-005-041-500	SPRING, AZIMUTH LOCK		2
	3-19	*S1-005-012-700	SPRING, AZIMUTH PLATE		1
	3-20	S3-005-010-850	PINCH ROLLER ARM ASSY F		1
	3-21	*S1-005-040-000	SPRING, PR ARM F		1
	3-22	S3-005-010-950	PINCH ROLLER ARM ASSY R		1
	3-23	*S1-005-040-100	SPRING, PR ARM R		1
	3-24	*S1-005-012-500	BRACKET, SWITCH		1
	3-25	*S1-005-013-900	PLATE, SWITCH		1
	3-26	*S3-005-011-900	TIP ARM ASSY		1
	3-27	*S1-005-040-800	SPRING, TIP ARM		1
	3-28	*S3-005-011-700	SELECT ARM ASSY		1
	3-29	*S3-005-011-800	POWER PLATE ASSY		1
	3-30	*S1-005-042-000	PLATE, SPRING SLIDE		1
	3-31	*S1-005-014-100	PLATE, SLIDE		1
	3-32	*S1-005-041-100	SPRING, RESET/P		1
	3-33	*S3-005-012-400	RESET PLATE ASSY		1
	3-34	*S1-005-034-300	SPACER		1
	3-35	*S1-005-041-000	SPRING, EJECT/P		1
	3-36	*S1-005-012-300	PLATE, EJECT		1
	3-37	*S1-005-040-900	SPRING, STARTER		1
	3-38	*S3-005-012-000	BRACKET, SOLENOID B		1
	3-39	*S3-005-013-800	SUB CHASSIS ASSY		1
	3-40	*S1-005-034-200	ROLLER, MODE		1
	3-41	*S1-005-040-600	SPRING, TRIGGER		1
	3-42	*S1-005-012-100	PLATE, TRIGGER		1
	3-43	*S1-005-022-000	GEAR, MODE		1
	3-44	*S3-005-022-100	EJECT GEAR ASSY		1
	3-45	*S1-005-021-600	GEAR, A		1
	3-46	*S3-005-021-900	REVERSE GEAR ASSY		1
	3-47	*S1-005-040-700	SPRING, REVERSE/T		1
	3-48	*S1-005-021-700	GEAR, B		1
	3-49	*S1-005-012-200	TRIGGER, REVERSE		1
	3-50	*S1-005-021-800	GEAR, C		1
	3-51	*S1-005-042-400	SPRING, REVERSE TRIGGER ARM		1
	3-52	*S1-005-015-300	ARM, REVERSE TRIGGER		1
	3-53	S1-005-060-000	FLYWHEEL ASSY		2
	3-54	S1-005-050-100	BELT, MAIN		1
	3-55	*S3-005-010-700	FF ARM ASSY		1
	3-56	S3-005-061-700	FF GEAR ASSY		1
	3-57	*S1-005-040-400	SPRING, FF ARM		1
	3-58	*S1-005-021-400	GEAR, 15.2		1
	3-59	*S1-005-020-600	GEAR, IDLER		2
	3-60	*S1-005-013-200	GUIDE, GEAR SHAFT		1
	3-61	*S1-005-021-500	GEAR, INPUT		1
	3-62	*S1-005-040-300	SPRING, IDLER		2
	3-63	*S1-005-040-500	SPRING, BRAKE		2
	3-64	*S1-005-011-500	PLATE, BRAKE R		1
	3-65	*S1-005-041-700	SPRING, TIMING ARM		1
	3-66	*S3-005-012-900	TIMING ARM ASSY		1
	3-67	*S1-005-032-300	ROLLER, TIMING A		1
	3-68	*S1-005-011-400	PLATE, BRAKE F		1
	3-69	*S1-005-037-600	STUD, SPECIAL		2
	3-70	*S1-005-033-200	ROLLER, B H/P		1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
3-71		*S1-005-033-100	ROLLER, A H/P		1
3-72		*S1-005-014-600	BRACKET, SOLENOID AT		1
3-73		*S1-005-014-700	HOLDER, PLATE SOLENOID		1
3-74		*S1-005-042-200	SPRING, HOLDER PLATE		1
3-75		*S1-005-011-300	PLATE, FF		1
3-76		*S3-005-011-100	MODE PLATE ASSY		1
3-77		*S1-005-041-600	SPRING, POWER		1
3-78		*S1-005-020-000	CRANK, FF		1
3-79		*S3-005-012-800	T CRANK ASSY		1
3-80		---	SPACER, T		2
3-81		*S3-005-011-000	POWER ARM ASSY		1
3-82		*S1-005-021-000	REEL, DRIVER		2
3-83		*S1-005-041-200	SPRING, SLEEVE		2
3-84		*S1-005-022-350	REEL BUSH ASSY PH		2
3-85		*S3-005-010-600	REEL PLATFORM BRACKET ASSY		1
3-86		*S1-005-020-500	ROLLER, H/A		1
3-87		*S1-005-022-250	PULLEY, TENSION		1
3-88		*S1-005-036-700	COLLAR, P.R		2
3-89		*S1-005-037-700	STUD, P.C.B		1

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
1		★ 89 - KT3 - 901 - 010	INSTRUCTION BOOKLET YZ (YZ ONLY)	※	1
2		★ 89 - KT3 - 903 - 010	INSTRUCTION BOOKLET	※	1
3		★ 82 - 685 - 236 - 010	METAL FITTING		1
4		★ 09 - 047 - 594 - 010	REMOTE CON ASSY RC - T8050 (Z8050)	※	1
5		★ 84 - 508 - 213 - 110	SLEEVE DIN		1
6		★ 87 - 067 - 157 - 010	NF 5 - 12 - 5.5		1